IMPERIAL MARITIME CUSTOMS.

III. - MISCELLANEOUS SERIES: No. 6.



LIST OF THE CHINESE
LIGHTHOUSES, LIGHT-VESSELS, BUOYS,
AND BEACONS

FOR

1895.

(Corrected to 1st December 1894.)

TWENTY-THIRD ISSUE.

PUBLISHED BY ORDER OF The Inspector General of Customs.

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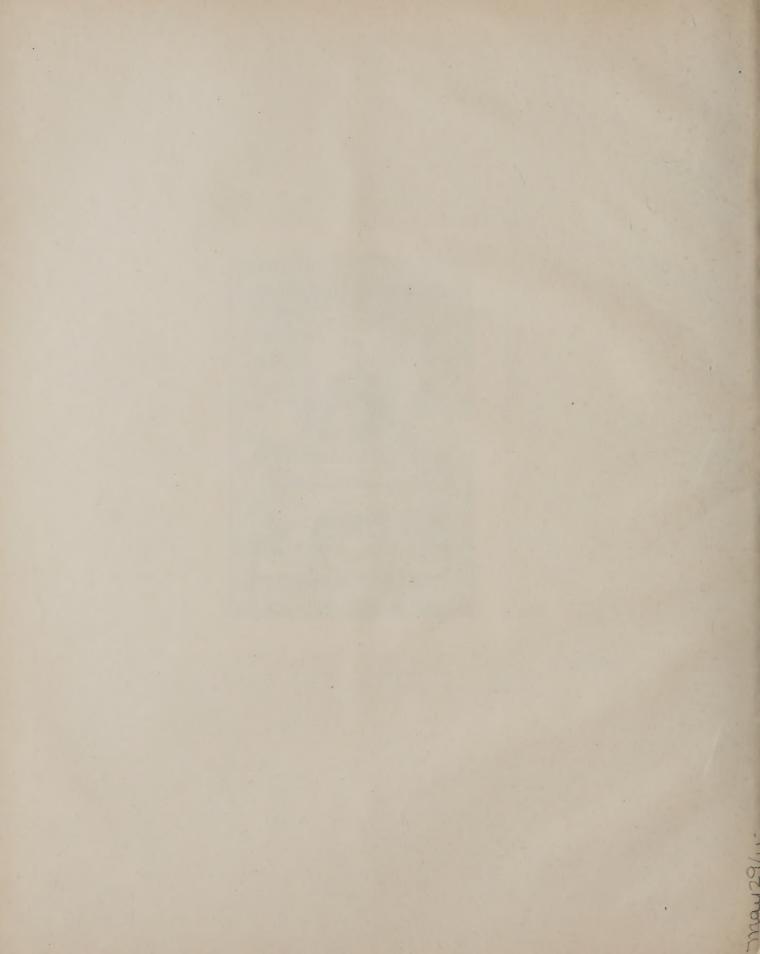
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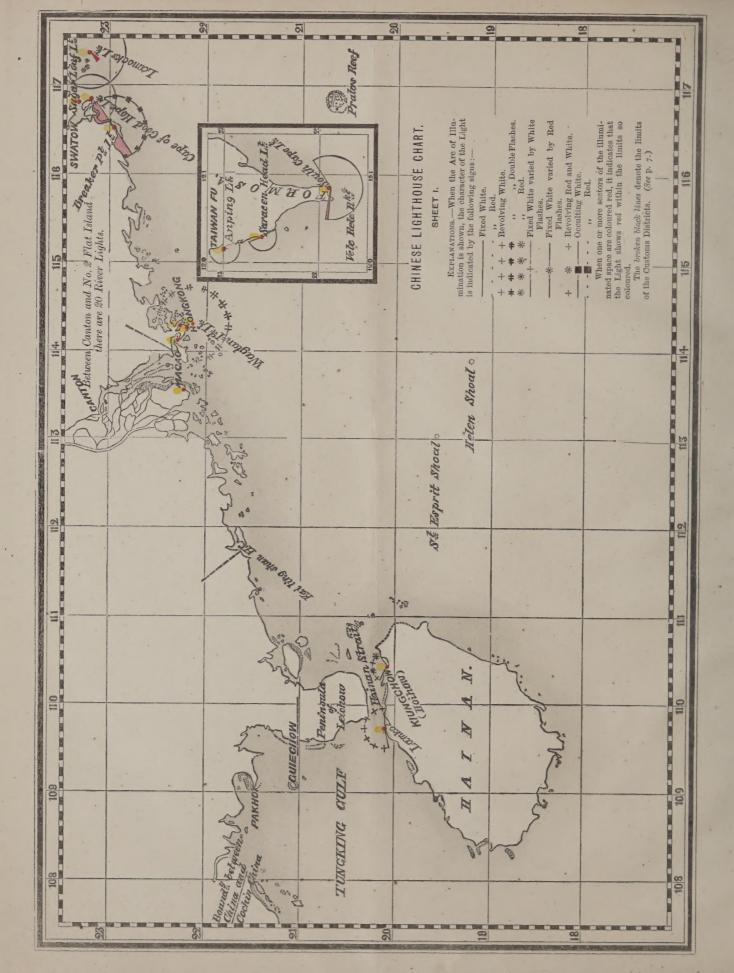


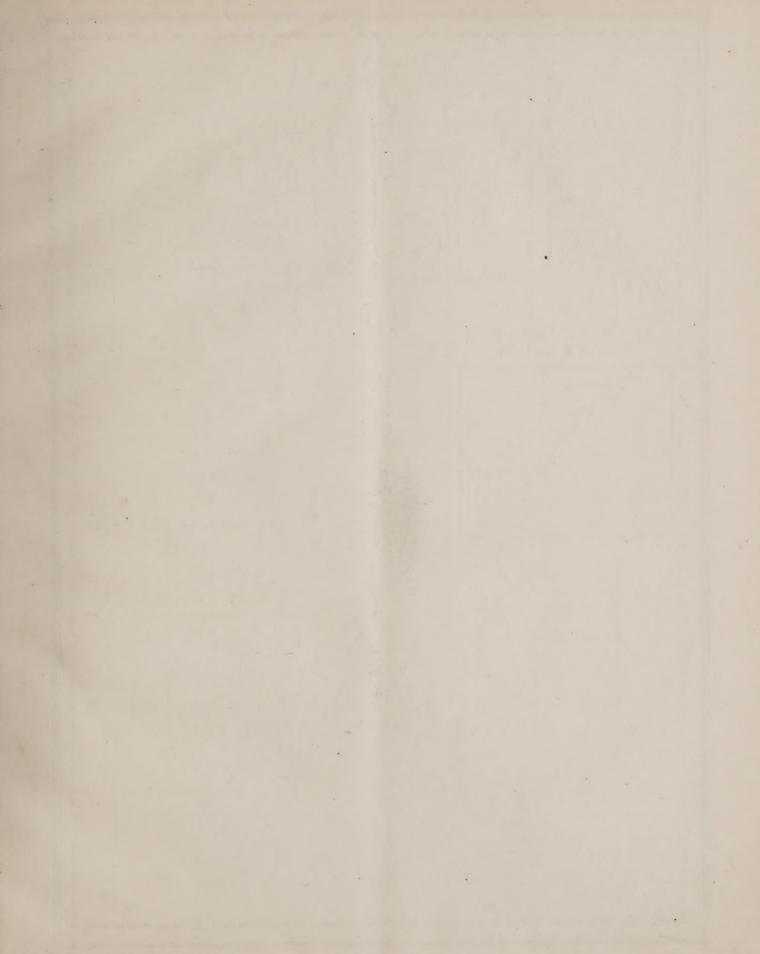
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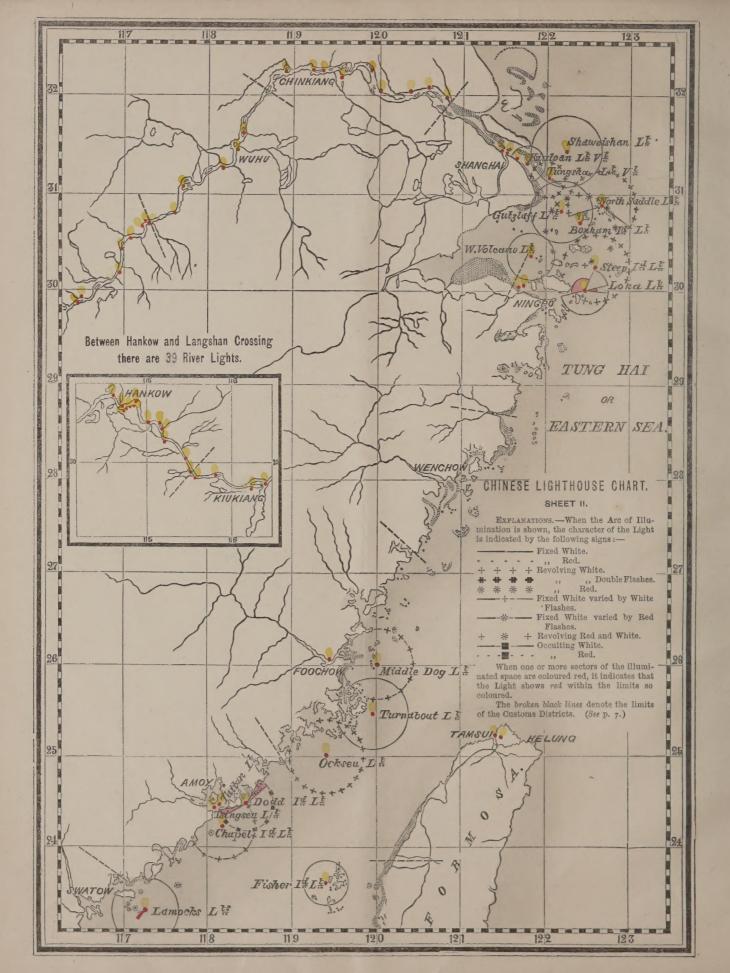
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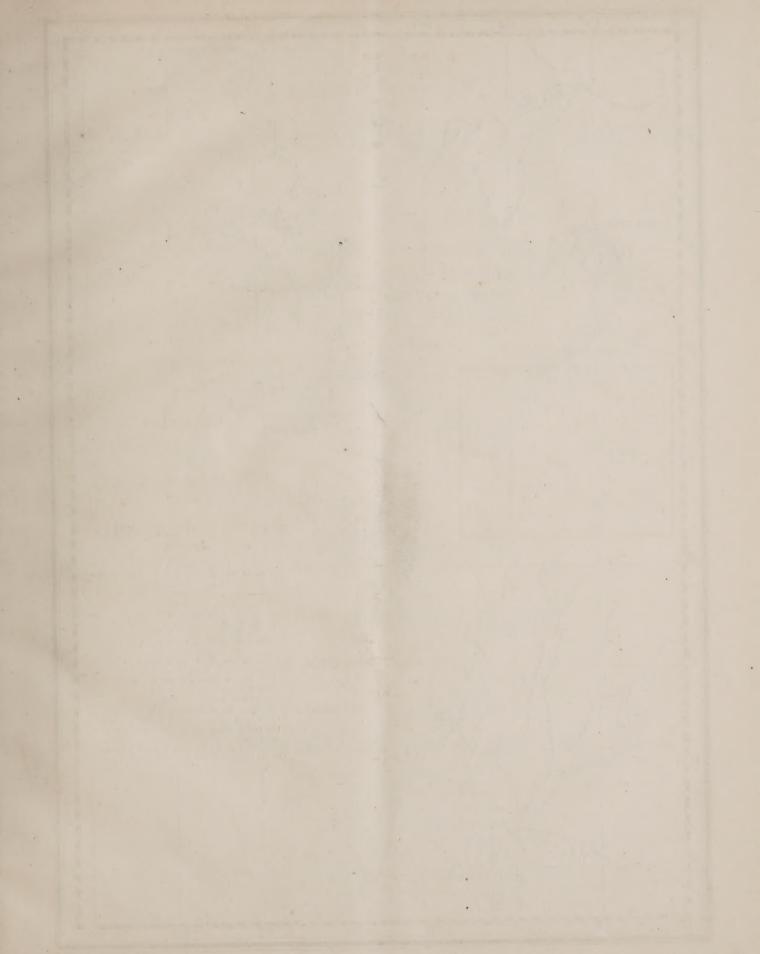


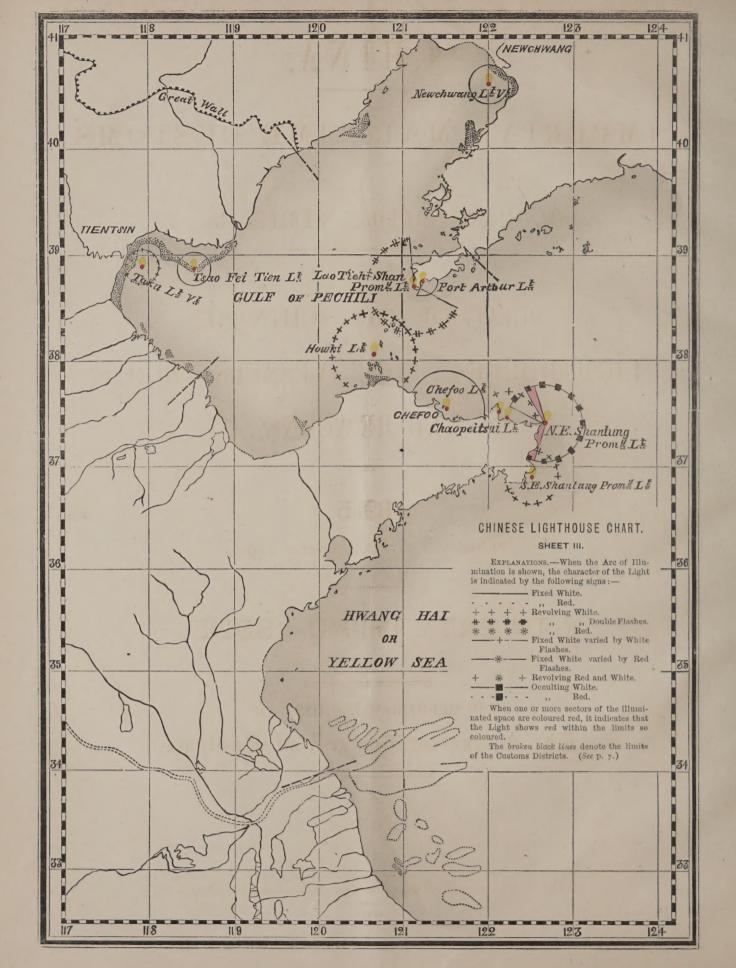












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All concerned are requested to note that Defence Measures along
the Coast may suddenly interfere with the exhibition of the Lights and
the maintenance of Buoys and Beacons.

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SUMMARY OF LIGHTS, BUOYS, AND BEACONS IN CHINESE WATERS.

Customs District.	Lights.	Light-vessels.	Buors.	Beacons.	Total.
Pakhoi	•••	•••	3	***	3
Kiungchow	2	***	4	•••	6
Canton	23		7	7	37
Swatow	5		4	1	10
Amoy	4	•••	8	16	28
Tainan	4		***	•••	4
Tamsui	2	***	5	ι	8
Foochow	4		11	4	19
Wenchow	•••		•••	7	7
Ningpo	3		2	4	9
Shanghai	13	2	28	10	53
Chinkiang	11		ī	•••	12
Wuhu	***		•••	• • •	•••
Kiukiang	14		•••	2	16
Hankow	14	•••	9	4	27
Ichang	•••		•••	•••	
Chefoo	8		•••	ť	9
Tientsin	I	I	4	6	12
Newchwang	***	I	3	5	9
Total	108	4	89	68	269

ABBREVIATIONS AND EXPLANATIONS.

LIGHTS.

- F. Fixed; only a fixed or steady light being visible.
- F. & Fl. Fixed and Flashing; a fixed light being always visible, which is intensified by flashes at the intervals stated.
 - Rev. Revolving; the light gradually increases to full effect and then gradually decreases to total eclipse at the intervals given, which are from centre to centre of the maximum brilliancy.
 - Occ. Occulting; when, for the periods stated, a fixed or steady light is shown, followed by a more or less sudden eclipse.
- Gp. Fl. Group flashing; showing groups of two or more flashes in succession, separated by eclipses.

ILLUMINATING APPARATUS.

- C. Catoptric, or by metallic reflectors.
- D. Dioptric, or by lenses and prisms.
- Ord. Order, or class of apparatus, numbered from the first (or most powerful) to the eighth order.

The bearings are magnetic, and are given from seaward.

The given distances, from which the lights should be visible in clear weather, are calculated for an observer at a height of 15 feet above the sea; the elevation of the lights being in all cases taken as above high water.

In several cases, however, when the light is not powerful enough to carry to the distance calculated from its height, a reduced range has been given.

The coloured lights are specially noted in italics in the column for remarks, all others being white.

The lights are exhibited from sunset to sunrise.

Longitude is given in degrees, minutes, and seconds east of Greenwich. The miles given are nautical miles, or minutes of latitude. Except in certain specified cases, the positions given are only approximate ones.

The light-vessels and lighthouses are provided with both Codes of Signals, but it is advisable to use the Commercial Code.

Banks of rivers are spoken of geographically, i.e., as right or left to a person facing down the stream.

^{***} Should Pilots or Commanding Officers of vessels detect or suspect that any movable mark has changed from its latest advertised position, they are requested to report such change without delay to the Harbour Master of the district concerned.

LIMITS OF CUSTOMS DISTRICTS.

The Pakhoi Customs District includes the coast line of China from the Tonkin frontier to Waichow (Guiechow) Island.

The Kiungchow (Hoihow) Customs District includes the Hainan coast, and from Waichow (Guiechow) Island to Hai-ling-shan.

The Canton Customs District extends (for matters affecting the Marine Department) from Hai-ling-shan, 111° 45′ E. longitude, to 114° E. longitude.

The Swatow Customs District includes that part of the coast which is situated between Mirs Point and the Lamocks.

The Amoy Customs District extends from the Lamocks north to Chinchew, inclusive.

The Tainan (Takow) Custems District comprises the south and southern half of the west coast of Formosa.

The Tamsui Customs District comprises the north and northern half of the west coast of Formosa.

The Foochow Customs District extends from Chinchew north to Namkwan.

The Wenchow Customs District includes the coast from Namkwan to T'aichow.

The Ningpo Customs District extends from Taichow north to Hangehow Bay.

The Shanghai Customs District extends from Hangehow Bay along the coast as far as the old mouth of the Yellow River, latitude 34° N., and up the Yangtze to the Langshan Crossing.

The Chinkiang Customs District comprises the Yangtze from the Langshan Crossing to Nanking.

The Wuhu Customs District includes the river from Nanking to Nganking.

The Kiukiang Customs District comprises the river from Nganking to the gorge west of Kiukiang.

The Hankow Customs District extends from the gorge west of Kiukiang to Yochow, at the mouth of the Tungting Lake.

The Ichang Customs District extends from the Tungting Lake to the gorge above Ichang.

The Chefoo Customs District includes the coast line from the old mouth of the Yellow River to the Ta-tsin-ho.

The Tientsin Customs District extends from the Ta-tsin-ho to the Shanhaikwan.

The Newchwang Customs District extends from the Shanhaikwan to Newchwang and from Newchwang south to Talienwan.

^{**} The Limits of the Customs Districts are shown approximately on the Charts at the beginning of this volume by broken lines cutting the Coast or the Yangtze River.

SYSTEM OF COLOURING BUOYS AND BEACONS IN CHINESE WATERS.

BUOYS.

No.	Colour of Buoy.	DIRECTIONS AND EXPLANATIONS.
I	Red	Entering the channel from seaward, red buoys will be found on the starboard side of the channel, and must be left on the starboard hand by vessels passing in.
2	Black	Entering the channel from seaward, black buoys will be found on the port side of the channel, and must be left on the port hand by vessels passing in.
3	Red and black horizontal bands.	Buoys painted in red and black horizontal bands will be found in the fairway, and should be passed close-to.
4		Buoys painted in red and black vertical stripes will be found on the ends of spits, and the outer and inner extremes of banks, shoals, or extensive reefs, where there is a navigable channel on either side of such spit, bank, shoal, or reef. Vessels should never attempt to pass between a buoy thus painted and the danger which it marks.
5	Red and black chequers	Buoys painted in red and black chequers will be used to mark rocks in the open sea, also to mark obstructions of small extent having channels on either side of them. When used for the latter purpose they will be placed to seaward of the danger. Vessels should never attempt to pass between a buoy thus painted and the danger which it marks.
8	Red and white chequers Black and white chequers Wreck buoys	When two chequered buoys of these colours are used to mark an obstruction, the red and white one is to mark the starboard side of the channel, and must be left on the starboard hand by vessels passing in; and the black and white one is to mark the port side of the channel, and must be left on the port hand by vessels passing in. Wrecks will in all cases be marked by green buoys, having the word WRECK painted on them in white letters, and when a wreck lies in the open sea or in a position where there is a navigable channel with plenty of room on either side of it, the buoy will carry no other distinguishing mark, and will in every such case be placed to seaward of the wreck. Wreck buoys marked with an even number must be left on the starboard hand by vessels entering from the sea. Wreck buoys marked with an odd number must be left on the port hand by vessels entering from the sea. The numbers on wreck buoys will be painted in white, and placed above the word WRECK.

Note.—All other distinguishing marks to buoys will be in addition to the foregoing, and where such are employed, a particular description of the same will in each case be given in the published List.

Each buoy will have an iron plate fastened on its outside, in some convenient place above the water-line, with the name of its district and station as given in the published List stamped thereon in English and Chinese, to insure its identification if found adrift.

BEACONS.

-		
No.	* Colour of Beacon.	DIRECTIONS AND EXPLANATIONS.
I	Red	Entering the channel from seaward, red beacons will be found on the starboard side of the channel, and must be left on the starboard hand by vessels passing in.
2	Black	Entering the channel from seaward, black beacons will be found on the port side of the channel, and must be left on the port hand by vessels passing in.
3	Red and black vertical stripes.	
4	Red and black chequers	Beacons painted in <i>red</i> and <i>black chequers</i> will be used to mark rocks in the open sea, also to mark rocks of small extent having chapnels on either side of them:
. 5	Red and white chequers	When two chequered beacons of these colours are used to mark a rock or reef, the red and white one is to mark the starboard side of the channel, and must be left on the starboard hand by vessels passing
6	Black and white chequers	in; and the black and white one is to mark the port side of the channel, and must be left on the port hand by vessels passing in. Note.—It is to be understood that the above rules for painting beacons
		apply in each case to the body of the structure. When a beacon which is painted a single colour, either black or red, is surmounted by a distinguishing mark, such mark may be painted the same colour as the body of the beacon or with
		that colour and white combined, or white alone. When the body of a beacon is painted in two colours, the same colours only may be used to paint the mark by which it is surmounted. Whenever a distinguishing mark is used, a
	77	particular description of it will be given in the published List.
	Various	Beacons on shore, to enable bearings to be taken or to give lines of direction for crossing bars or entering rivers, harbours, etc., will be painted so as to make them as conspicuous as possible. Red, black, and white will be the only colours used, and a particular description of such marks will be given in the published List.

LIGHTS.

No.	District.	Name of Light,	Location,	Latitude N.	Longitude E.	Fixed, Fixed & Flashing, Re- volving, Occulting.	Intervals between the Flashes.	Miles seen in clear Wea- ther.
I	Kiungchow	Hoihow Harbour	Southern shore of Hoihow Bay	20° 1′ 15″	110° 16′ 10″	Gp. Fl.	6 seconds white, 13½ seconds red_and	
2	do	Lamko	Extremity of Lamko Point	20° 0′ 30″	109° 42′ 15″	Fl.	white. 20 seconds	131
3, 4	Canton	Dutch Folly North Beacons.	On the rocks near Dutch Folly Island.			. F.		2
5	do	Dutch Folly South Beacon.	do. * do.			F.		I
6, 7	do	Whampoa Barrier	Whampoa Channel, at the upper end of Whampoa Island.				*	
8-11	do	Cambridge Reach Barrier.	Cambridge Reach, Whampoa Chan- nel.				000000000000	1
12	do	Taimei Beacon	On the end of sandspit making out from 49th Point, Marines Island, Blenheim Passage.				••••••	I
13, 14	do	Taishek Barrier Beacons.	Blenheim Passage					I
15, 16	do	High Island Barrier	Immediately below High Island, Blenheim Passage.					
17-20	do	Bridge Barrier	Collinson Reach, Blenheim Passage					I
21-24		Collinson Reach Bar-	· ·					I
25	do	Waglan Island	Summit of island	. 22° 11' 18"	114°. 18′ 1″	Gp. Fl.	minute	22
. 26	Swatow	Breaker Point	On the point	*22° 56′ 24″.	*116° 29′ 43″.8	Occ.	8 seconds light and 2 seconds	
		•					eclipse.	

^{*} Geographical position furnished by Lieut. PIRIE, R.N., H.B.M.S. Rambler.

LIGHTS.

Colour, or any Peculiarity of Light-tower.	Feet of Centre of	from Base	Year lighted.	Character and Order of Illuminating Apparatus.	Remarks.	No.
Round, white	73	22	1894	D. 6th Order	Showing three white flashes in rapid succession followed by a single red flash, and visible in all directions except where obscured by land. The lightkeepers' dwellings, outhouses, and boundary wall are painted white.	I
Screw pile, white with two red horizontal bands.		671	1894	D. 4th Order	Showing white flashes at intervals of 20 seconds. The light-keepers' dwellings and outhouses are painted white. Caution.—As there are extensive reefs to the north-ward and westward of Lamko Point, this lighthouse should be passed at a distance of not less than 2 miles.	2
Round, granite beacons, painted red, and sur-		26	1859	Unclassed	Two red lights on the north side of the channel, Dutch Folly Pass.	3, 4
mounted by a lantern. Round, stone and brick beacon, painted black, and surmounted by a lantern.	10	22	1859	do	A green light on the south side of the channel, Dutch Folly Pass.	5
Iron davits, painted red on the north side of passage and black				do	A red light on the north side and a green light on the south side of the steamer passage through barrier.	6, 7
on the south side. A red spar on the north side and a black spar on the south side of each passage.			1891	do	Two passages through barrier—the southern for steamers, the northern for junks,—each having a red light on the starboard hand and a green light on the port hand, entering from sea.	8-11
Spar beacon, painted black, white, and black, and surmounted by a square frame.	,	. 27	1872	do. *	A white light hoisted to bottom of frame	12
Spar beacons, each painted red, white, and red, and surmounted by a circular frame.		46	1872	do	Two red lights hoisted on the beacons	13,
Iron davits, painted red on the north side of passage and black on the south side.			1891	do	A red light on the north side and a green light on the south side of passage through barrier.	15,
do.			1891	do.	Two passages through barrier—the northern for steamers, the	17-
do.			1891	do.	southern for junks,—each having a red light on the starboard hand and a green light on the port hand, entering from sea.	21-
Round, lower half white, upper half red. Lantern white.		52	1893	D. 1st Order	Showing double white flashes and visible in all directions except where obscured by land. The lightkeepers' dwellings, outhouses, and boundary wall are painted white. The keepers at this lighthouse on hearing a bell, fog horn, steam whistle, or any other sound, during foggy or thick weather, indicating the proximity of a vessel, will fire 2 guns with an interval of 15 seconds between them, and, if the vessel's fog	25
Round, black and white horizontal bands.	1521	120	. 1880	do.	signal—showing that she is under way—continues to be heard, will repeat the firing after an interval of 12 minutes. Note.—This light is in the Canton Customs District, but it is under the control of the Amoy Customs. White from S. 55° W. round by W. to N. 53° E., and red inshore of both these bearings as far as the land. The keepers at this lighthouse on hearing a bell, fog horn, steam whistle, or any other sound, during foggy or thick	26
					weather, which shall indicate the proximity of a vessel, will fire 2 guns with an interval of 10 seconds between them, and, if the vessel's fog signal—showing that she is under way—is still heard, will repeat the firing after a space of 10 minutes.	

	No.	District.	Name of Light,	Location.	Latitude . N.	Longitude E.	Fixed, Fixed & Flashing, Re- volving, Occulting.	Intervals between the Flashes.	Miles seen in clear Wea- ther.
	27	Swatow	Cape of Good Hope	On the cape	*23° 14′ 19″.3	*116° 48′ 24″	F. & Occ.	•	white, 8 red.
		•	· . ·			-			
I	28	do. ,	Sugar Loaf	On the eastern end of the summit of island.	23° 19′ 54″	116° 45′ 32″	F. & Fl.	½ minute	8
	.29	do	Lamocks	Summit of High Island	*23° 15′ 42″.7	*117° 17′ 4″.5	F.		22
	30	do	do	Southern slope of High Island	************		F.		8
9	31	Amoy	Chapel Island	Summit of island	*24° 9′ 49″.1	*118° 13′ 30″	F. & Fl.	½ minute	22 .
		•		a .	4				
	32	do	Tsingseu Island	On the northern slope of the island	*24° 21′ 58″.1	*118° 7′ 26″.3	F.		white, 8 red.
	33	do	Taitan Island	On the island, near the northern entrance to Amoy Harbour.	*24° 23′ 16″.1	*118° 10′ 0″.6	Occ.	light, 2 seconds eclipse, 2 seconds light, 2 seconds eclipse,	10
	34	do	Dodd Island	Summit of island	*24° 25′ 43″.9	*118°30′11″.1		and so on. 26 secs. light and 4 seconds eclipse.	18

^{*} Geographical position furnished by Commander W. U. Moore, R.N., H.B.M.S. Rambler.

_							-
	Colour, or any Peculiarity of Light-tower.	Feet of Centre of	Height in Feet of Building from Base to Vane.	Year lighted.	Character and Order of Illuminating Apparatus.	Remarks.	No.
	Round, white	171	22	1880	D. 4th Order	Fixed red from S. 32° E. to S. 10° E.; fixed white, eclipsed for about 3 seconds every minute, from S. 10° E. round by S. and W. to N. 8½° E.; and fixed red, eclipsed for about 3 seconds every minute, from N. 8½° E. till it is shut in by Ma-urh Point. The keepers at this lighthouse on hearing a bell, fog horn, steam whistle, or any other sound, during foggy or thick weather, which shall indicate the proximity of a vessel, will fire 2 guns with an interval of 1 minute between them, and, if the vessel's fog signal—showing that she is under way—is still heard, will repeat the firing after a space of 15 minutes.	27
	Round, red	200	211	1880	D. 6th Order	Fixed white varied by red flashes at ½-minute intervals; visible all round.	28
	Round, black	241	54	1874	D. 1st Order	wall are painted white. The keepers at this lighthouse on hearing a bell, fog horn, steam whistle, or any other sound, during foggy or thick weather, which shall indicate the proximity of a vessel, will fire 3 guns with an interval of 2 minutes between the first and second and the second and third, and, if the vessel's fog signal—showing that she is under way—is	29
	No tower	55	. 18	i874	D. 4th Order condensing.	still heard, will repeat the firing after a space of 12 minutes. Shows a beam of red light between N. 34½° E. and N. 50½° E., covering the White and Boat Rocks. Outside of this angle of 16° the light gradually wanes on each side of it for 4½°. In clear weather and when a vessel is close to the lighthouse, faint red light is visible beyond the angle of 24½°, between the bearings of N. 30½° E. and N. 54¾° E. Exhibited from a window in a building painted white.	30
	Round, black	227 ·	63	1871	D. 1st Order	Visible all round. The lightkeepers' dwellings and boundary wall are painted white. The keepers at this lighthouse on hearing a bell, fog horn, steam whistle, or any other sound, during foggy or thick weather, which shall indicate the proximity of a vessel, will fire 2 guns with an interval of 3 minutes between them, and, if the vessel's fog signal—showing that she is under way—is still heard, will repeat the firing after a space of 10 minutes.	31
	Octagonal, red and white vertical stripes.		33	1875	D. 4th Order	Red from N. 1° E. to N. 57° W.; white from N. 57° W. round by W. and S. to S. 50° E.; and red from S. 50° E. to S. 89° E. The lightkeepers' dwellings and boundary wall are painted white.	32
	Iron hut, white	300	10½	1863 altd. 1888		Visible all round	33
:	Round, white	147	79 .	1882	D. 1st Order	White from S. 51° W. round by W. to N. 62° E.; red from N. 62° E. to N. 74° E.; white from N. 74° E. round by E. to S. 31° W.; and red from S. 31° W. to S. 51° W. The light-keepers' dwellings and outhouses are painted white. The keepers at this lighthouse on hearing a bell, fog horn, steam whistle, or any other sound, during foggy or thick weather, which shall indicate the proximity of a vessel, will fire 2 guns with an interval of half a minute between them, and, if the vessel's fog signal—showing that she is under way—is still heard, will repeat the firing after a space of 15 minutes.	34

	No.	District.	Name of Light.	Location,	Latitude N.	Longitude E.	Fixed, Fixed & Flashing, Re- volving, Occulting.	Intervals between the Flashes.	Miles seen in clear Wea- ther.
	35 ·	Tainan	South Cape *	About 550 yards north from high water mark at the extreme south point of the South Cape, Formosa.		120° 50′ 38″	· F.		20
						,			
	36	do	Saracen Head	Front of flagstaff near the summit of Saracen Head, at the	22° 36′ 14″	120° 16′ 0″	F.	• • • • • • • • • • •	10
	37	do	Anping	entrance to Tainan Harbour. About 340 yards N.W. by W. from the tree on the top of the mound in Fort Zelandia.	23° 0′40″	120° 9′ 45″			IO
	38	do	Fisher Island*	S.W. extremity of island	° 23° 32′ 53″	119° 28′ 5″	F.		15
		•							Auto-Auto-Auto-Auto-Auto-Auto-Auto-Auto-
	39	Tamsui	High Bar Light *	Hill to north of the harbour, about 400 yards S. 86° E. from the Red Fort.		* * * * * * * * * * * * * * * * * * * *	F.		10
	40	do	Low Bar Light *	Site of old white beacon, about 1,030 yards N. 86° W. from the Red Fort.			· F.	,	6
	41	Foochow	Ockseu	Summit of High Island	+24° 59′ 36″.3	†119° 27′ 7″	Rev.	1 minute	24
•	42	do	Turnabout	Summit of island	+25° 26′ 10″.4	+119° 56′ 6″.8	F.		23
		. •			•	·			

^{*} Temporarily discontinued by order of the territorial authorities.

Colour, or say Peculiarity of Lightstower. Round, white	_							-
and rad from S. 35° E. 10 S. 25° E. Between the bearings S. 34° 55′ W., and S. 86° 28′ W., it is validative of the light, owing to the height of the land to the catternoon of the light, owing to the height of the land to the catternoon of the service of the service of the light, owing to the height of the land to the catternoon of the service of the service of the service of the search of the light, owing to the height of the land to the catternoon of the search of the light is entirely observed by the land, between the extreme limit of its range and the shores. To the westward, it illuminates more of the sea until, on the bearings S. 86° 25′ W. it is the land that shores between the extreme limit of its range and the shores. To the westward the light is entirely observed by the land, between the extreme limit of its range and the shores. To the westward the light is entirely observed by the land, between the extreme limit of its range and the shores. To the westward the light is entirely observed by the land to the land t		or any Peculiarity	Feet of Centre of Light	Feet of Building from Base		Order of Illuminating	Remarks.	No.
Square, white. Lantern let into seaward angle of building. Iron lattice mast, white. Square white mast, white. 164 1883 1882 33 1882 33 1882 33 1882 33 1882 33 1882 33 1882 33 1882 33 1882 33 1882 33 1883 36 37 38 39 39 39 39 39 39 39		Round, white	180	712	1883	D. 1st Order	and red from S. 85° E. to S. 28° E. Between the bearings S. 54° 55′ W. and S. 86° 28′ W., the visibility of the light, owing to the height of the land to the eastward of the lighthouse, will depend upon the distance of the observer from it. With the light bearing S. 54° 55′ W., a vessel will need to be between 15 and 20 miles distant in order to see it; but as it is brought to bear more to the westward, it illuminates more of the sea until, on the bearing S. 86° 28′ W., it is visible at all distances between the extreme limit of its range and the shore. To the westward and north-westward of the south-west point of Formosa, the light is entirely obscured by the land, between the bearings S. 80° 13′ E. and S. 28° E. The lightkeepers' dwellings and boundary wall are painted white. The keepers at this lighthouse on hearing a bell, fog horn, steam whistle, or any other sound, during foggy or thick weather, which shall indicate the proximity of a vessel, will fire 2 guns with an interval of 3 minutes between them, and, if the vessel's fog signal—showing that she is under way—	35
Round, black		tern let into seaward		16½	1883	D. 6th Order	Visible from N. 36° W. round by N. and E. to S. 20° 30′ E., where the light is shut out by the bluff at the foot of Ape	36
Round, black		Iron lattice mast	32½	33½	1882	; do.	Position changed in November 1890 to a new site about 1,000 feet in a N.W. by N. direction from its last position. Illuminates the whole sea horizon. During the north-east monsoon vessels may anchor anywhere in from 5½ to 6 fathoms, with the light bearing between N. 50° E. and N. 60° E. During the south-west monsoon the best anchorage will be found in from 6 to 7 fathoms, with the	37
Round, white	The state of the s	Round, black	205	33	1875	D. 4th Order	Visible all round except where obscured by the islands. The lightkeepers' dwellings and boundary wall are painted white. The keepers at this lighthouse on hearing a bell, fog horn, steam whistle, or any other sound, during foggy or thick weather, which shall indicate the proximity of a vessel, will fire 2 guns with an interval of 5 minutes between them, and, if the vessel's fog signal—showing that she is under way—	38
of a square iron framework. All white. Round, black		Round, white	. 142	35	1888	D. 6th Order	The high light shows a white light from S. 52° E. round by E. to N. 68½° E. The low light shows green from S. 50° E. to S. 84° E., white from S. 84° E. to N. 86° E.,	39
altd. 1875 altd. 1875 white: The keepers at this lighthouse on hearing a. bell, fog horn, steam whistle, or any other sound, during foggy or thick weather, which shall indicate the proximity of a vessel, will fire 3 guns with an interval of 2 minutes between the first and second and third, and, if the vessel's fog signal—showing that she is under way—is still heard, will repeat the firing after a space of 12 minutes. Visible all round. The lightkeepers' dwellings and boundary wall are painted white. The keepers at this lighthouse on hearing a bell, fog horn, steam whistle, or any other sound, during foggy or thick weather, which shall indicate the proximity of a vessel, will fire 2 guns with an interval of 3 minutes between them, and, if the vessel's fog signal—showing that she is under way—is still heard, will repeat		of a square iron frame		45	1888	-	and red from N. 86° E. to N. 61° E. The two white lights, when kept in line, indicate the best channel for crossing the bar when the bar is in its normal state.	40
tween the first and second and third, and, if the vessel's fog signal—showing that she is under way—is still heard, will repeat the firing after a space of 12 minutes. Visible all round. The lightkeepers' dwellings and boundary wall are painted white. The keepers at this lighthouse on hearing a bell, fog horn, steam whistle, or any other sound, during foggy or thick weather, which shall indicate the proximity of a vessel, will fire 2 guns with an interval of 3 minutes between them, and, if the vessel's fog signal—showing that she is under way—is still heard, will repeat		Round, black	. 286				white. The keepers at this lighthouse on hearing a bell, fog horn, steam whistle, or any other sound, during foggy or thick weather, which shall indicate the proximity of a	41
		do	. 257	54	1873	do.	tween the first and second and second and third, and, if the vessel's fog signal—showing that she is under way—is still heard, will repeat the firing after a space of 12 minutes. Visible all round. The lightkeepers' dwellings and boundary wall are painted white. The keepers at this lighthouse on hearing a bell, fog horn, steam whistle, or any other sound, during foggy or thick weather, which shall indicate the proximity of a vessel, will fire 2 guns with an interval of 3 minutes between them, and, if the vessel's fog signal—showing that she is under way—is still heard, will repeat	42

[†] Geographical position furnished by Commander W. U. Moore, R.N., H.B.M.S. Rambler.

No.	District.	Name of Light.	Location.	Latitude N.	Longitude E.	Fixed, Fixed & Flashing, Re- volving, Occulting.	Intervals between the Flashes.	Miles seen in clear Wea- ther.
43	Foochow	Middle Dog	N.E. extremity of Middle Dog Island.	*25° 58′ 10″.3	*119° 59′ 2″. i	F. & Fl.	3 minute	23
	·			-				
					•			
44	do	Pagoda Rock	On the rock in the Pagoda Anchorage.		************	F.	**********	. 1
45	Ningpo	Square Island †	Summit of island	29° 59′ 21″	121° 45′ 22″	F.	******	9
46	do	Tiger Island +	do	29° 57′ 41″	121° 43′ 49″	F		5
47	Ningpo and Shanghai.	Loka Island	North point of the island	29° 58′ 15″	122° 27′ 20″	. F.	a b a a a a a a a a a	vhite,
48	Shanghai and Ningpo.	Steep Island	Summit of island	*30°-12′42″.2	*122°35′20″.1	Rev.	½ minute ∙	22
49	Shanghai	West Volcano	do	*30° 20′ 50″.1	*121° 51′ 25″	F.	*******	15
	•							

^{*} Geographical position furnished by Commander W. U. Moore, R.N., H.B.M.S. Rambler.

Colour, or any Peculiarity of Light-tower.	Feet of Centre of Light	Height in Feet of Building from Base to Vane.	Year lighted.	Character and Order of Illuminating Apparatus.	Remarks.	No.
Round, white	257	64	1872	D. 1st Order	Visible from S. 70° E. round by S. and W. to N. 40½° E. From S. 70° E. round by E. to N. 40½° E. the light is obscured by the Tongsha and Middle Dog Islands, except from S. 89° E. to N. 81¾° E., and from N. 61½° E. to N. 57° E., where the light is also visible. The light-keepers' dwellings and boundary wall are painted white. The keepers at this lighthouse on hearing a bell, fog horn, steam whistle, or any other sound, during foggy or thick weather, which shall indicate the proximity of a vessel, will fire 3 guns with an interval of 2 minutes between the first and second and second and third, and, if the vessel's fog signal—showing that she is under way—is still heard, will repeat the firing after a space of 15 minutes.	43
Iron pile surmounted by a cage, painted re		28	1871	Unclassed	Red, visible all round	44
Octagonal, white	123	33	1865 altd. 1872		Visible all round. A 5-cwt. fog bell is sounded once in fogs at 15-second intervals.	45
Octagonal, red as white vertical stripe		30	1865 altd. 1872		Red, visible all round. A gong is sounded in fogs, five times in quick succession, at intervals of about 1 minute. The lightkeepers' dwellings are painted in red and white vertical stripes.	46
White	128		1890	D. 4th Order	White from N. 14° 30′ W. to N. 86° W. In this sector there are two small obscurations caused by islands to the S.S.E. of Loka, the light being invisible between N. 17° 30′ W. and N. 19° 50′ W. and between N. 23° W. and N. 26° W. Red from N. 86° W. to S. 78° 30′ W.; white from S. 78° 30′ W. to S. 25° W.; red from S. 25° W. round by S. to S. 89° 45′ E.; white from S. 89° 45′ E. to N. 77° E. From N. 77° E. round by N. to N. 14° 30′ W. the light is entirely obscured by Loka Island.	47
Round, black	243	47	1883.	D. 3rd Order	Between the bearings N. 20° 54′ E. and N. 41° 17′ E. the light is obscured by Tripod Island, and to the eastward and south-eastward of Video and the Fisherman's Group it is not visible between N. 88° 39′ W. and N. 57° 41′ W. To the westward and north-westward of Hall Island and Hewett Islands it is also obscured between S. 82° 13′ E. and S. 63° 35′ E., with the exception of a ray between the bearings S. 65° 53′ E. and S. 64° 39′ E. The keepers at this lighthouse on hearing a bell, fog horn, steam whistle, or any other sound, during foggy or thick weather, which shall indicate the proximity of a vessel, will fire 3 guns with an interval of 3 minutes between the first and second and second and third, and, if the vessel's fog signal—showing that she is under way—is still heard, will repeat the firing after a space of 10 minutes.	48
do	93	33	1872	D. 4th Order	Visible all round. The lightkeepers' dwellings are painted white. The keepers at this lighthouse on hearing a bell, fog horn, steam whistle, or any other sound, during foggy or thick weather, which shall indicate the proximity of a vessel, will fire 2 guns with an interval of 5 minutes between them, and, if the vessel's fog signal—showing that she is under way—is still heard, will repeat the firing after a space of 10 minutes.	49

No.	District.	Name of Light.	Location.	Latitude N.	Longitude E.	Fixed, Fixed & Flashing, Re- volving, Occulting.	Intervals between the Flashes.	Miles seen in clear Wea- ther.
50	Shanghai and Ningpo.	Bonham Island	Southern shoulder of island	*30° 36′ 56″	*122° 25′ 5″	Rev.	<u>डे</u> minute	22
51	Shanghai	Gntzlaff	Summit of island	*20° 48′ 26″ 8	*122°10′11″6	F.		20
51					4			
52	do	North Saddle	N.E. extremity of island	*30° 51′ 41″.4	*122°40′16″.6	Rev.	r minute	24
53	do	Tungsha	Light-vessel off S.W. edge of Tungsha Bank, in 4 fathoms water, with Gutzlaff Lighthouse bearing S. 20° E., Shaweishan Island N. 37° E.		122° 0′ 18″	Rev.	½ minute	11
54	do	. Shaweishan	Summit of island	31° 25′ 27″	122° 14′ 42″	F.		

^{*} Geographical position furnished by Commander W. U. Moore, R.N., H.B.M.S. Rambler.

and the same of th	Colour, or any Peculiarity of Light-tower.	Feet of Centre of	Height in Feet of Building from Base to Vane.	Year lighted.	Character and Order of Illuminating Apparatus.	. Remarks.	No.
	Round, red and white horizontal bands.	237 .	47	1883	D. 3rd Order	Alternate red and white flashes. Between the bearings S. 14° 41′ W. and S. 47° 30′ W. the light is obscured by the high land of Bonham Island, and to the northward and eastward of Elliot, Raffles, and Senhouse Islands it is also obscured from S. 12° 2′ E. to S. 82° 16′ W., with the exception of rays between S. 11° 24′ E. and S. 10° 36′ E., between S. 2° 21′ E. and S. 0° 44′ E., between S. 1° 31′ W. and S. 3° 19′ W., and between S. 50° 5′ W. and S. 60° 11′ W. The keepers at this lighthouse on hearing a bell, fog horn, steam whistle, or any other sound, during foggy or thick weather, which shall indicate the proximity of a vessel, will fire 2 guns with an interval of 1 minute between them, and, if the vessel's fog signal—showing that she is under way—is still heard, will repeat the firing after a space of 8 minutes. Danger.—Vessels should be careful to avoid Bonham Rock, which is described in vol. III of the "China Sea Directory." as a dangerous rock awash at low water and situated 1 cable from the southernmost of the small islets west of Bonham Island, with the lighthouse bearing S.E.	
	No tower, white lantern.	270	24	1869	do.	by E. ½ E., distant 6½ cables. Visible all round. Telegraph station. The keepers at this lighthouse on hearing a bell, fog horn, steam whistle, or any other sound, during foggy or thick weather, which shall indicate the proximity of a vessel, will fire 3 guns with an interval of 2 minutes between the first and second and second and third, and, if the vessel's fog signal—showing that she is under way—is still heard, will repeat the firing	51
	Upper part black, lower white.	273	54	1870	D. 1st Order	after a space of 15 minutes. Visible from N. 52° W. round by W. and S. to N. 73° E. The remaining angle is chiefly obscured by the Saddle and Parker groups of islands. The lightkeepers' dwellings are painted white. The keepers at this lighthouse on hearing a bell, fog horn, steam whistle, or any other sound, during foggy or thick weather, which shall indicate the proximity of a vessel, will fire 3 guns with an interval of 1 minute between the first and second and 5 minutes between the second and third, and, if the vessel's fog signal—showing that she is under way—is still heard, will repeat the	52
	Red, one mast with black ball.	40		1855 altd. 1871	C	firing after a space of 10 minutes. "Tungsha" on her sides. A gun will be fired when vessels are seen running into danger, and the course that should be steered will be signalled by the Commercial Code. In foggy weather a steam horn will be sounded at intervals of 10 seconds. When necessary to lower the light for trimming, a small white light will be hoisted, and a flashlight burned. In order to show the direction in which the light-vessel is riding, a white riding-light will be exhibited from sunset to sunrise from the fore-stay, at a height of 6 feet above the rail. If the light-vessel be driven from her proper position to one where she is of no use as a guide to shipping, the usual light will not be shown, but a fixed red light will be exhibited at each end	53
	Round, black	. 229	55	1871	D. 1st Order	of the vessel; the ball will be struck as soon as possible, and till struck it will be surmounted by a red flag. Visible all round. The lightkeepers' dwellings are painted white. The keepers at this lighthouse on hearing a bell, fog horn, steam whistle, or any other sound, during foggy or thick weather, which shall indicate the proximity of a vessel, will fire 3 guns with an interval of 5 minutes between the first and second and I minute between the second and third, and, if the vessel's fog signal—showing that she is under way—is still heard, will repeat the firing after a space of 15 minutes.	54

No.	District.	Name of Light.	Location.	Latitude N.	Longitude E.	Fixed, Fixed & Flashing, Re- volving, Occulting.	Intervals between the Flashes.	Miles seen in clear Wea- ther.
55	Shanghai	Kiutoan*	Light-vessel in 3½ fathoms water, off the S.E. end of the Blockhouse Shoal. Kiutoan Beacon bears S. 68½° W., distant 3.45 miles.			F.		11
56	·do	Kiutoan Small Beacon	On the south bank of the Yangtze, $5\frac{1}{2}$ miles N.W. of the Kiutoan Beacon.	31° 19′ 10″	121° 39′ 9″	F.		5
57	do	Lismore Wreck Light- boat.	About 500 feet to the northward of the <i>Lismore</i> wreck.			F.		1
58	do		Left bank of the Woosung River, near Woosung.	31° 23′ 18″	121° 29′ 36″	F.		white, 8 red, 5 green
59, 60	do	Woosung Inner-Bar Lights: Feima Chan- nel.+	Left bank of the Woosung River			F.		2
61, 62	do		Right bank of the Woosung River	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		F.		2
63	Chinkiang, • Yangtze.	North Tree	On the north bank of the river		*******	F.		7
64	do	Cooper Bank	do. , do	*******	40040+00000000000000	F.	•••••••	7
65	do∴	Tung-lo-tu	do			F.		7
66	do	Bate Point, or Fish- bourne Island.	On Bate Point			F	• • • • • • • • • • • •	7
67	do	Beaver, or Pottinger Island.	On the southern extremity of the island.			F.		7
68	do	Tantu	On the south bank of the river, distant 5.62 miles below Silver Island.			F.		7
69	do	Pei-sin-chow	Lower (east) end of island, distant 5 miles from Chinkiang.			F.		7 !
70	do	Bethune Point	Upper (west) end of Pei-sin-chow Island.	* * * * * * * * * * * * * * * * * * * *		. F.		7
71	do	Mud Fort	On a low point on the north bank of the river, marked on some of the British Admiralty charts as Mud Fort, distant from Bethune Point 21 miles.			F.	•••••	7
72	do	Wade Island	On the island, about 4 miles from the lower (north) end.			F.		7

^{*} Shifted to present position on the 5th January 1892.

T		Height in	Height in				
	Colour, or any Peculiarity of Light-tower.	Feet of Centre of	Feet of Building from Base	Year lighted.	Character and Order of Illuminating Apparatus.	Remarks.	No.
	Red, one mast with black ball.	35		1878	C	"Kiutoan" on her sides. In foggy weather a 10-cwt. fog bell will be struck three double blows in each minute, the interval between the blows of each pair being 5 seconds, and between two successive pairs of blows 15 seconds. When necessary to lower the light for trimming, a small white light will be hoisted, and a flash-light burned. In order to show the direction in which the light-vessel is riding, a white riding-light will be exhibited from sunset to sunrise from the fore-stay, at a height of 6 feet above the rail. If the light-vessel be driven from her proper position to one where she is of no use as a guide to shipping, the usual light will not be shown, but a fixed red light will be exhibited at each end of the vessel; the ball will be struck as soon as possible, and till struck it will be surmounted by a red flag. Vessels should not attempt to pass to the north-eastward of the lightship in her present position.	55
	Wooden tripod, white	32	40	1868 altd, 1878	D. 6th Order	Red, visible all round except on the landward side	56
-	Junk with one mast and ball.			1877	Unclassed	A red light with a white light underneath it. Vessels should not attempt to pass between the light-boat and the wreck.	57
	Square, black	50	58	1865 altd.1872, 1873, 1875, 1878, and 1888.	D. 4th Order		58
				1893		A white light on the low pole near the river bank, and a red light on the high pole farther inland. See Nos. 47, 48 in list of Beacons.	59, 60
				1872	Red, D. 7th Order. White, D.8th Order.	A red light on the low bar mark near the river bank, and a white light on the high mark farther inland. See Nos. 49,	61,62
	Black, single pole, surmounted by wicker ball.		73	1868	D. 6th Order	Altered 1873. Position changed 1874, 1884, 1886, 1890, and 1892. In May 1894 this light was shifted 600 feet N. 50° E. from its last position.	63
	do.	51	62	1867	do.	Altered 1873. Position changed 1876, 1880, 1881, 1882, 1883, 1885, 1887, and 1888. In July 1892 this light was shifted 1,064 yards S. 42° E. from its last position.	64
	do.	49	59	1871	do.	Altered 1875. Position changed 1877	65
	do.	53	63 .	1867	do.	Altered 1873	66
	do.	52	62	1867	do.	Altered 1872. Position changed 1878. In September 1885 this light was shifted about 690 yards S. 11° E. from its last position.	67
	do.	75	43	1867	do.	Altered 1875	68
	do.	51	64	1871	do.	Altered 1873. In November 1893 this light was shifted 200 feet S. 42° E. from its last position.	69
-	″do. '	55	68	1867	do.	Altered 1875. Position changed 1878, 1881, 1883, and 1885. In September 1887 this light was shifted 230 yards N. 5° E. from its last position.	70
	do.	55	70	1877	do.	Position changed 1878 and 1881. In April 1890 this light was shifted 720 feet N. 70° E. from its last position.	71
	do.	52	70	1867	do.	Altered 1873	72

[†] Discontinued whenever, and so long as, the depth in the Feima Channel is less than the depth in the line of the old Bar Marks.

No.	District.	Name of Light.	Location,	Latitude N.	Longitude E.	Fixed, Fixed & Flashing, Re- volving, Occulting.	Intervals between the Flashes.	Miles seen in clear Wea- ther.
73	Chinkiang, Yangtze.	Wuhu	East bank of the river, 3½ miles above Point Morton.		 	F.		7
74	Kinkiang, Yangtze.	Point Haines Beacon.	On the south (right) bank of the river.	**************		F.		7
75	do	Two - fathom Creek Beacon.	On the left bank of Two-fathom Creek, 1,230 yards N. 87° E. from extreme point on the upper (western) end of the creek.		,	F.		7
76	do	Buckminster Island Beacon.	On Chin-tê-chow Island, about 1½ miles from the lower (north) end.			F.		7
77	do	Fitzroy Island Beacon	On the left bank of the river		······································	F.		7
78	do		On the N.W. side of the Rock Temple.					7
79	do	Kiangloong Wreck Light-boat.	Moored off the left bank of the river, abreast the wreck.			F.		4
80	,do	Hen Point Beacon	On the left bank of the river, opposite Hen Point.			. F.		7
. 18	do	Eagle Island Beacon	On the right bank, near point opposite Ngankin.			F.		7
82	do	Christmas Island Beacon.	Upper (south) end of island			F.		7
83	do	Spencer Rock Light- boat.	Moored immediately below the lower or N.E. ledge of Spencer Rock, in Tung-liu Reach.			. F.		7
84	do	N.E. Crossing Beacon	On the north (left) bank of the river.			. F.		7
85	do	N.E. Crossing Channel Light-boat.	Moored near the lower end of the sand-bank marked on British Admiralty Chart No. 2,695, "Dries at 26 feet."			. F.		7
86	do	Point Otter, Lay Island	Lower (east) end of island			F.		7
87	do	Kiukiang Rocks Light- boat.	Moored abreast of the Kiukiang Rocks, close to the upper end of			F.		4
88	Hankow, Yangtze.	Li-yü-shan	Oliphant Island. On top of small hill on right bank of river, about 4 miles above Wusueh and opposite lower end of Hwang-lin-chow Shoal.			. F.		7

Colour, or any Peculiarity of Light-tower.	Feet of Centre of	from Base	Year lighted.	Character and Order of Illuminating Apparatus.	Remarks.	No.
Black, single pole, sur- mounted by wicker		44	1867	D. 6th Order	Altered 1875	73
do.	34	48	1870	do.	Altered 1871. Position changed 1888	74
do.	34	47	1893	do.	Established to mark the upper (western) entrance of creek	75
do.	32	46	1870	do.	Altered 1871. Position changed 1883. In October 1891 this light was shifted S. 48° E. 50 yards from its last position.	76
do.	32	46	1870	do.	Altered 1871. Position changed 1891. In May 1893 this light was shifted 130 yards N. 73° E. from its last position.	77
do.	26	42	1870	do.	Altered 1871	78
One mast with black ball.	25		1873	do.	Altered 1875, 1876, 1883, and 1885. Red. The light-boat is moored abreast the wreck (not over it), to mark the starboard side of the channel for vessels entering from seaward; and it should be passed close to in order to avoid the wreck. From the wreck Hen Point bears S. 68° E., and Tai-tzŭ-chi Rock Temple N. 35° E.	79
Grey, single mast	35	38.1/2	1870	do.	Altered 1871. Position changed 1882. Discontinued 1883. Re-established in March 1885. White. Visible all round.	80
Black, single pole, sur- mounted by wicker ball.		46	1870	do.	Altered 1871. Position changed 1879, 1880, 1882, 1884, and 1886. In May 1887 this light was removed from the island and re-erected on the right bank of the river, opposite its former position. In September 1891 the light was shifted down river about 11 miles (nearer Ngankin).	81
do	34	48	1870	do.	Altered 1871. Position changed 1873, 1874, 1878, 1880, 1883, 1886, 1887, 1888, 1889, 1890, and 1892. In October 1893 this light was shifted 206 yards N. 11° E. from its last position.	82
One mast with black ball.	25		1873	do.	Altered 1884. The light-boat is moored at the lower or N.E. ledge of Spencer Rock, to mark the starboard side of the south channel for vessels entering from seaward. Only in position during low stage of the river, viz., from about 1st December to 30th June.	83
Black, single pole, surmounted by wicker ball.		48	1870	do.	Altered 1871. Position changed 1872, 1874, 1875, 1883, 1888, and 1890. In April 1893 this light was shifted 1,498 yards S. 79° E. from its last position.	84
One mast with black ball.	25	. 4 6 9 9 9 9 9 9 9 9	1886	do.	The light-boat is moored about 3 miles above N.E. Crossing light beacon, on the north side of the channel at its narrowest part, to indicate the channel when the banks are flooded. Only in position during high stage of the river, viz., from about 1st July to 30th November.	85
Black, single pole, surmounted by wicker ball.		48	1870	do.	Altered 1871. In November 1893 this light was shifted 50 yards S. 52° W. from its last position.	86
One mast with black ball.	34		1894	do.	Red. The light-boat is moored abreast of the Kiukiang Rocks, to mark the starboard side of the channel for vessels entering from seaward.	87
Lightexhibited from top of small pillar standing in front of keepers' quarters—a two-story grey brick building with a Chinese roof.			1886	do.	The hill on which the light stands is known locally as Li-yü-shan. The light illuminates an arc of 240°, i.e., from N. 40° W. round by W., S., and E. to N. 80° E.	88

No.	District.	Name of Light.	Location.	Latitude N.	Longitude E.	Fixed, Fixed & Flashing, Re- volving, Occulting.	Intervals between the Flashes.	Miles seen in clear Wea- ther.
89	Hankow, Yangtze.	Low Point	On the point			F.		5
90	do.	Ruined Fort	On top of fort :	••••••	•••••	F.		7
91	do.	Lee Rock	On bluff, about 1 mile above rock		••••••••	F.		4
92	do.	Collinson and Hunter Islands Light-boat.	Off lower end of Collinson Island cut-off and upper end of Hunter Island.			F.		7
93	do.	Collinson Island Light-boat.	Off upper end of Collinson Island	•••••	***********	F.		7
94	do.	Ten-foot Rock Light- boat.	Near north bank of river opposite Ten-foot Rock.			F.		7
95	do.	Gravener Island Light-boat.	Off upper end of Gravener Island			F.		7
96, 97	do.	Chung - chih - kuan Range Lights.	On right bank of river, opposite Huquang Rock, Huquang Win- ter Channel, Lo-ko-hi Reach.			F.	-	21/2
98, 99	do.	So-chia-chih Range Lights.	do. do.			F.		$\begin{cases} 2\frac{1}{2} \\ 2\frac{1}{2} \end{cases}$
100	do.	Bouncer Island Light-boat.	Off lower end of Bouncer Island			F.		7
101	do.	Yang-lo	On small hill, distant 111 yards to the N.W. of the Yang-lo Joss House.			F.		7 2
102	Chefoo	South-east Shantung Promontory.	On the S.E. elbow of the South- east Shantung Promontory.	36° 54′ 0″	122° 31′ 45″	Rev.	½ minute	1570

_		-	NAME OF TAXABLE PARTY.				The second second
	Colour, or any Peculiarity of Light-tower.	Feet of	Height in Feet of Building from Base to Vane.	Year lighted.	Character and Order of Illuminating Apparatus.	REMARKS.	No.
	A single pole, with ball on top.	43		1871	D. 6th Order	Red. Altered 1872. Visible from S.E. round by S. and W. to N. 15° E.	89
	A single pole, with ball on top, at corner of hut.			1873	· do.	Visible from S. 25° W. round by S. and E. to N. 35° W	90
	Lantern-hut grey; light shown from corner.	60		1882	do.	Red. Altered December 1884	91
	One mast and ball	25		1871	do.	Altered 1873. Stationed off the upper end of Hunter Island from about December to end of June, and off Collinson Island, lower end (cut-off) from about 1st July to December.	92
	do	25		1871	do.	Altered 1873. Stationed near north bank from about December to end of June, and to mark cut-off from about 1st July to December.	93
	do. ,	25		1873	do.	Opposite Ten-foot Rock, from about end of November to 30th June.	94
	do	25		1869	do.	Altered 1873. Position changed as necessary	95
	A single white pole and ball.			1892	do.	Red light on high pole. White light on low pole (nearer to the channel). Temporary lights for clearing Huquang Rock. Exhibited from about December to May, or when	96
	A single white pole and ring.			1892	Unclassed	the river is below 19 feet (Hankow established water gauge).	97
	A single pole and ball painted white, red and black.			1892	do.	White light on high range pole. White light on low range pole (nearer to the channel). Temporary range lights for clearing W. C. de Vries Rock. Exhibited from about	98
	A single pole, with ring on top, painted white, red, and black	Į.		1892	do.)	December to May, or when the river is below 19 feet (Hankow established water gauge).	99
	One mast and ball	25		1871	do.	Altered 1873. Stationed on north side of spit, to mark the cut-off, from about 1st July to December, and on south side from about 1st December to end of June.	100
	One single mast	67		1892	do.	On the north bank of river 14 miles below Hankow. Lighted temporarily the first time August 1891. The light is visible from river between the bearings S.S.E. through E. and N. to N.N.W.	101
	Round, red and white horizontal bands.	96½	77½	1883	D. 1st Order	The lightkeepers' dwellings and boundary wall are painted white. A first-class siren, giving a blast of 4 seconds' duration at intervals of 1½ minutes, will be sounded during thick or foggy weather. Dangers.—Regarding the island which forms the South-east Shantung Promontory, the "China Sea Directory," vol. III, 1874, p. 463, states that:—"Extensive reefs, some detached, border the whole shore, which is of the most dangerous character, and should not be passed at less than a mile, except off the western bluff, nor in less than 9 fathoms water."	102

	No.	District.	Name of Light.	Location,	Latitude N.	Longitude E.	Fixed, Fixed & Flashing, Re- volving, Occulting.	Intervals between the Flashes.	Miles seen in clear Wea- ther.
	103	Chefoo	North-east Shantung Promontory.	On the N.E. extremity of the North-east Shantung Promontory.	37° 24′ 0″	122° 42′ 0″	Occ.	13 secs. light, 2 secs. eclipse, every quarter of a minute.	22
	104	do	Chao-pei-tsui *	On the northernmost bluff immediately to the eastward of Weihaiwei Harbour.	37° 27′ 41″	122° 15′ 5″	Rev.	½ minute	15
	105	do	Observatory Island *	Near western shoulder of island	37° 30′ 25″	122° 10′ 25″	F.		4 red, 6 white.
	106	do	Chefoo Light	Kung-tung-tao Island, highest part	37° 34′ 10″	121° 32′ 15″	F.		22
		do	Howki Island	Summit of island	38° 3′ 45″	120° 39′ 0″	Rev.	½ minute	24
,	108	do	Port Arthur *	On bluff at western side of entrance to Port Arthur.	38° 47′ 26″	121° 15′ 26″	F.		8
	109	do	Lao-t'ieh-shan Pro- montory.	On S.W. slope of Lao-t'ieh-shan Promontory.	38° 43′ 17″	121° 8′ 26″	Gp. Fl.	½ minute	25

^{*} Temporarily discontinued by order of the territorial authorities.

LIGHTS—Continued.

	Colour, or any Peculiarity of Light-tower.	Height in Feet of Centre of Light above HW	from Base	Year	Character and Order of Illuminating Apparatus.	. Remarks.	No.
	Round, white	220	64	1874 altd. 1892		Her White from S. 62° E. to S. 30° E.; red from S. 30° E. to S. 17° E.; white from S. 17° E. round by S. and W. to N. 21° E.; and red from N. 21° E. to N. 49° E. Between S. 59½° E. and S. 18½° E. the light is seven times obscured by peaks; the obscuration between S. 26° 18′ E. and S. 23° 10′ E. being caused by Alceste Island. The light-keepers' dwellings and boundary wall are painted white. During foggy or thick weather, a first-class siren will be sounded, giving 2 blasts, each of about 2½ seconds' duration (high note, low note), in quick succession every 2 minutes. Note.—The former fog signal, which was 2 guns fired with an interval of 1 minute between them and repeated after an interval of 10 minutes if a vessel's signal—showing that she was under way—continued to be heard, will not be given in future unless the siren shall be disabled.	
1	White	94	35½	1891	D. 4th Order	To mark the eastern entrance to Weihaiwei Harbour. The lightkeepers' dwellings and boundary wall are painted white.	104
	White, iron framework	61		1891	D. 6th Order	Red between the north-western shoulder of Leu-kung-tau and S. 46½° W.; white between S. 46½° W. and S. 28¾° W.; and red between S. 28¾° W. round by E. and N. to N. 23½° W. The lightkeepers' dwelling is painted white. Directions.—Vessels entering should keep in the white sector, with the light bearing about S. 37° W., magnetic, till Round Island bears N. 45° W., then haul gradually to the westward into the red sector and round the northwestern end of Observatory Island at a distance of not less than 2 cables.	
	Round, white and red horizontal bands.	242	45	1867	C. 1st Order	Visible all round. The keepers at this lighthouse on hearing a bell, fog horn, steam whistle, or any other sound, during foggy or thick weather, which shall indicate the proximity of a vessel, will fire 2 guns with an interval of 5 minutes between them, and, if the vessel's fog signal—showing that she is under way—is still heard, will repeat the firing after	106
	Round, black	328½	46½	1882	D. 1st Order	a space of 8 minutes. Visible all round. The lightkeepers' dwellings are painted white. The keepers at this lightheuse on hearing a bell, fog horn, steam whistle, or any other sound, during foggy or thick weather, which shall indicate the proximity of a vessel, will fire 2 guns with an interval of 2 minutes between them, and, if the vessel's fog signal—showing that she is under way—is still heard, will repeat the firing after a space of 10 minutes. Note.—The exhibition of this light is discontinued on the 16th December of each year and resumed on the 1st March of the following year.	107
]	Black and white horizontal bands.	90	22	1891	D. 6th Order	White between the bearings S. 50° W. round by W. and N. to N. $27\frac{1}{2}$ ° E. Keepers' dwellings and boundary wall are painted white. Note.—This light is in the Newchwang Customs district, but it is under the control of the Chefoo Customs.	108
	Round, white	-315½	52	1893	D. 1st Order	Showing double white flashes between the bearings S. 8° E. round by E. and N. to N. 73° W., except where it is obscured by outlying islands. Notes.—The exhibition of this light is discontinued on the 16th December of each year and resumed on the 1st March of the following year. This light is in the Newchwang Customs district, but it is under the control of the Chefoo Customs.	109

LIGHTS—Continued.

No.	District.	Name of Light.	Location.	Latitude N.	Longitude E.	Fixed, Fixed & Flashing, Re- volving, Occulting.	Intervals between the Flashes.	
110	Tientsin	Tsao-fei-tien	Tsao-fei-tien Island ("Shalui-tien").	38° 56′ o″	118° 31′ 0″	F.	•••••	10
111	do	Taku	Light-vessel in outer anchorage, and moored in 17½ feet of water at low water springs, off Taku Bar.		117° 51′ 0″	Rev.	½ minute	II
112	Newchwang	Newchwang	Light-vessel in 5 fathoms water, about 3½ miles W.S.W. from bar of Liao River.	40° 35′ 0″	122° o' o"	F.	• • • • • • • • • •	11
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LIGHTS—Continued.

Colour, or any Peculiarity of Light-tower.	Feet of Centre of	Height in Feet of Building from Base to Vane.	Year lighted.	Character and Order of Illuminating Apparatus.	• Remarks.	No.
White, octagonal, built of brick and stone.	50	45	1886	D. 6th Order	Visible all round. Light not exhibited from 1st January to 1st March.	110
Red, one mast with black ball.	35		1880 altd. 1887	C	"Taku" on her sides. In foggy weather a gong will be sounded at 1-minute intervals. In order to show the direction in which the light-vessel is riding, a white ridinglight will be exhibited from sunset to sunrise from the fore-stay, at a height of 6 feet above the rail. This light-vessel is only in position from the opening of the river to the 30th November, on account of ice. If the light-vessel be driven from her proper position to one where she is of no use as a guide to shipping, the usual light will not be shown, but a fixed red light will be exhibited at each end of the vessel; the ball will be struck as soon as possible, and till struck it will be surmounted by a red flag.	III
Red, three masts, with black ball on mainmast only.			1867 altd. 1871	C	"Newchwang" on her sides. A gun will be fired when vessels are seen running into danger, and the course that should be steered will be signalled by the Commercial Code. In foggy weather a steam fog horn will be sounded at intervals of 10 seconds. When necessary to lower the light for trimming, a small white light will be hoisted and a blue light burned; and, in order to show the direction in which the light-vessel is riding, a white riding-light will be exhibited from sunset to sunrise from the fore-stay, at a height of 6 feet above the rail. This light-vessel is only in position from about the 1st April to the 15th November, on account of the ice. If the light-vessel be driven from her proper position to one where she is of no use as a guide to shipping, the usual light will not be shown, but a fixed red light will be exhibited at each end of the vessel; the ball will be struck as soon as possible, and till struck it will be surmounted by a red flag.	112

BUOYS.

DISTRICT NUMBER	MA	ARK	Depth: Low Water Spring	Note,
AND NAME.	Description.	Position.	Tides.	
Pakhol. I. Starboard Buoy	Red nun buoy, 4½ feet in diameter, surmounted by a black spherical cage.	On starboard side of fairway, entering from seaward, between rows of fish-stakes off the village of Tikok, at the entrance to the anchorage.	21 feet	From the buoy, Custom House bears S. 84° E. and Tikok Point S. 32° E. A clear passage, 270 feet wide, exists between these buoys, with not less than 19 feet of water at low water spring tides.
2. Port Buoy	Black nun buoy, 4½ feet in diameter, surmounted by a black diamond-shaped cage.	On port side of fairway, entering from seaward, between rows of fish-stakes off the village of Tikok, at the entrance to the anchorage.		From the buoy, Custom House bears S. 83° E. and Tikok Point S. 30° E.
3. Harbour Buoy Kiungchow.	White and black vertically striped nun buoy, 3½ feet in diameter.	At inner (east) limit of anchorage for foreign vessels.	14 do	From the buoy, Custom House bears S. 70° E. and Tikok Point S. 64° W. Vessels drawing more than 12 feet should not anchor to the eastward of the buoy.
	Red and black horizontally striped conical 10-foot buoy, surmounted by a black spherical cage.		78 feet	This buoy marks the fairway of the eastern entrance to Middle Channel. Approximate position; latitude 20° 17' 35" N., longitude 110° 58' 20" E. (With the buoys in the positions described, the best track for vessels to follow when using the South Channel is to pass not less than 3 cables eastward of
	Black conical 6-foot buoy, sur- mounted by a black tri- angular cage.	ward of the rock and about $1\frac{8}{10}$ miles to the south-eastward of Hainan Point.		the Magpie Rock Buoy and then steer to pass the Hainan Head Bank Buoy at about 3 cables, taking care toguard against being set towards the shore, and
3. Hainan Head Bank Buoy	Red conical 6-foot buoy, sur- mounted by a black in- verted frustum cage.		25 do	remembering that it is safe to borrow towards the banks on the starboard
4. Hainan Reef Buoy Canton.	Black conical 6-foot buoy, sur- mounted by a black spheri- cal cage.	About 2½ cables to the northward of the outer rock of Hainan Reef.	72 do	hand, of which the lead, which should be kept going, will give warning, while on the other side the bottom is rocky and uneven and the lead gives no warning. The Hainan Reef Buoy may be rounded at a distance of I cable or more at discretion.
1. Dutch Folly North Buoy	Wooden conical-shaped buoy, painted red above water.	Near Dutch Folly Island, Can- ton River.	8 feet	Marks the western extremity of the channel, northern aide, between the rocks, on which the depth of water is 4 feet at low water spring tides. A red light is placed on it from sunset to sunrise.

District Number	М	ARK.	Depth: Low	Note.
AND NAME.	Description.	Position.	Water Spring Tides.	NOTE.
2. Dutch Folly South Buoy	Wooden conical-shaped buoy, painted black.	Near Dutch Folly Island, Canton River.	12 feet	Marks the western extremity of the channel, southern side, between the rocks. Moored close to the northern side of the rock, on which the depth of water is 2 feet at low water spring tides. A green light is placed on it from sunset to sunrise.
3. Macao Fort Rock Buoy	do. do.	On the north-east extremity of Macao Fort Rock.	10 do	Marks the north-eastern extremity of Macao Fort Rock. A green light is placed on it from sunset to sunrise. Vessels should pass between this buoy and the Haeshin Rock Buoy.
4. Haeshin Rock Buoy	Wooden conical-shaped buoy, painted red above water.	South-western edge of Haeshin Rock.	10 do	Marks the south-western edge of Haeshin Rock. A red light is placed on the buoy from sunset to sunrise. Vessels should pass between this buoy and the Macao Fort Rock Buoy.
5. Bird's Nest Rocks Buoy	do. do.	Off the south-western end of the Bird's Nest Rocks.	13 do	Marks the south-western edge of the Bird's Nest Rocks. A red light is placed on this buoy from sunset to sunrise.
6. Shamien Rock Buoy	Wooden conical-shaped buoy, painted in red and black chequers above water.		12 do	Marks the northern extremity of Shamien Rocks. A red light is placed on the buoy from sunset to sunrise. Vessels entering should leave this buoy on the port hand when rounding-to, to anchor in the harbour.
7. Fa-ti Rock Buoy Swatow.	do. do.	On the northern extremity of the rock.	12 do	A red light is placed on this buoy from sunset to sunrise.
1. Dove Rock Whistling Buoy.	Red and black chequered automatic whistling buoy, 10 feet in diameter at the water line.	Off the Dove Rock	4½ fathoms	Placed about 2 cables from the pinnacle of the Dove Rock, so as to mark the S.E. extremity of the reef.
2. Mud Flat Buoy	Red conical buoy, 6 feet in diameter at the water line, surmounted by a black spherical cage.	Outer edge of mud bank; E. ½ N. of Customs Pier; distant three-quarters of a mile.	2 do	Marks the southern edge of the mud bank on the north side of the harbour.
3. Wyoming Rock Buoy	Black conical buoy, 6 feet in diameter at the water line, surmounted by a black in- verted frustum cage.	Off the rock, Swatow Anchorage	7 do	This buoy is placed about 40 yards N.E. from the rock, on which there is 4 feet of water at low water spring tides.

DISTRICT NUMBER	· · . M.	ARK.	Depth: Low Water Spring	Note.
AND NAME.	Description.	Position.	Tides.	4 V.J.De
4. Madras Rock Buoy	Black conical buoy, 6 feet in diameter at the water line, surmounted by a black spherical cage.	Off the rock, Swatow Anchorage	3½ fathoms	This buoy is placed about 40 yards N. by E. from the rock, which has only 6 feet of water on it at low water spring tides.
Amoy. 1. Coker Rocks East Buoy	Black and white chequered conical buoy, 6 feet in diameter.	Eastward of the Coker Rocks	8 fathoms	Vessels should not pass between these buoys.
2. Coker Rocks West Buoy	Red and white chequered conical buoy,6 feet 5 inches in diameter.	Westward of the Coker Rocks	63 do	,
3. Brown's Rocks East Buoy.	Black and white chequered conical buoy, 6 feet in diameter, surmounted by a black spherical cage 2 feet in diameter.	Eastward of the Brown's Rocks	12 do	} do. do.
4. Brown's Rocks West Buoy.	Red and white chequered conical buoy, 6 feet in diameter, surmounted by a black spherical cage 2 feet in diameter.		6½ do	
5. Harbour Rock Buoy	Red and black chequered nun buoy, 3 feet 4 inches in diameter.	On the north-western edge of the Harbour Rock.	22 feet	About 130 fathoms S.W. of Dock Island. Vessels passing inside this buoy should give it a berth of not less than 50 fathoms.
6. Kellett Spit Buoy	Red and black vertically striped conical buoy, 6 feet in diameter.	On the northern end of the Kellett Spit.	22 do	Vessels should not pass be- tween this buoy and the Island of Kulangsu.
7. Quemoy Spit Buoy	Red automatic whistling buoy, The name "QUE-MOY" is painted on the buoy in white letters.		8 fathoms	o feet in diameter. Vessels should not pass between this buoy and Quemoy Island.
8. Minerva Rock Buoy Tamsul.	Black nun buoy, 7 feet 6 inches in diameter. The name "MINERVA" is painted on the buoy in white letters.	tremity of Cass Spit).		From the buoy, the summit of Monkey Island bears N. 24½° E., Druid Head (on Kulangsu) bears N. 62° E.; Cornwallis Stone (on Amoy) bears S. 85° E. Vessels should not pass between this buoy and Sungseu Island.
1. Northern Bar-buoy *	Black conical buoy, 6 feet in diameter.	Northern side of approach to Tamsui Bar.	29 feet	Low Bar Light, S. 82° E.; Chinese beacon, N. 57° E.
2. Southern Bar-buoy *	Red conical buoy, 6 feet in diameter.	 Southern side of approach to Tamsui Bar.	22 do	Low Bar Light, N. 85° E.; Chinese beacon, N. 46° E.
3. Harbour Buoy *	Red nun buoy, surmounted by a black spherical cage.	On the northern edge of the sandspit at the southern side of the entrance to Tamsui Harbour.		Low Bar Light, N. 80° E., about 3½ cables distant.

^{*} Temporarily removed by order of the territorial authorities.

	District Number	MA	ARK.	Depth: Low Water Spring	Note.
	AND NAME.	Description.	Position.	Tides.	NOIB.
4-	Inflexible Reef Buoy *	Black conical buoy, 4 feet in diameter, surmounted by a black spherical cage.	Inflexible Reef, Kelung Harbour.	60 f eet	Image Point, N. 60° W.; Ruin Rock, S. 28° W.
5.	Coral Shoal Buoy *	Red conical buoy, 4 feet in diameter, surmounted by a black spherical cage.	To the eastward of Coral Shoal, Kelung Harbour.	30 do	Image Point, N. 24° W.; Ruin Rock, S. 61° W.
	Foochow.				
Ι.	Min Reef Whistling Buoy.	Red and black chequered automatic whistling buoy. The name "Min" is painted on the buoy in white letters.	Off the northern extremity of Min Reef.	66 feet	10 feet diameter. From the buoy Chang-chi Peak bears N. 49° E.; Sharp Peak bears N. 73° W.
2.	Aymar Rock Buoy	Red and black chequered buoy, surmounted by a black diamond-shaped cage. The name "AYMAR" is painted on the buoy in white letters.		54 do	6 feet diameter. Chang-chi Peak bears N. 66° 30′ E.; Middle Dog Lighthouse bears S. 35° 15′ E.; Sea Dog bears S. 55° 30′ E.
3.	East Channel Entrance or No. 1 Fairway Buoy.	Red and black horizontally striped fairway buoy, sur- mounted by a cage.	Entrance to Min River, East Channel.	24 do	10 feet diameter and 18 feet high to top of cage. Sharp Peak bears N. 73° 30′ W.; Black Head bears S. 39° 30′ W.
4.	Middle or No. 2 Fairway Buoy.	Red and black horizontally striped fairway buoy, surmounted by a black conical frustum cage.		15 do	10 feet diameter and 18 feet high to top of cage. Sharp Peak bears N. 653° W.; Black Head bears S. 232° W.
5.	Inner or No. 3 Fairway Buoy.	Red and black horizontally striped fairway buoy, surmounted by a black cage.		39 do	10 feet diameter and 18 feet high to top of cage. Sharp Peak bears N. 47° W.; Round Island bears S. 58° W.
6.	Eme Rock Buoy	Red nun buoy	Starboard side of channel, Min River.	13½ do	Clears Eme Rocks. Sharp Peak Point bears S. 77° E.; Sharp Peak Summit bears N. 12° E.
7.	Temple Rock Buoy	do	Temple Rock, Min River	21 do	Marks the southern extremity of the rock.
8.	Stone Barrier Buoy	Black nun buoy	Close to the northern end of Stone Barrier opposite Tem- ple Point, Min River.	21 do	Vessels should not pass between this buoy and Wild Duck Bank (West Brother).
9.	Spiteful Island Black Buoy.	do	Port side of channel, Min River.	48 do	Clears the rocks off Spiteful Island.
10.	Niu-ta Rock South Buoy	Red and white chequered nun buoy.	On the southern edge of the Niu-ta Rock.	17 do	Vessels must not pass be-
II.	Niu-ta Rock North Buoy		On the northern edge of the Niu-ta Rock.	24 do	tween these buoys.

District Number	. М	ARK.	Depth: Low Water Spring	Note.
AND NAME.	Description.	Position.	Tides.	
Ningpo. 1. Sesostris Rock Buoy*	Black and red chequers, surmounted by a black cage.	Near the rock in mid-channel	30 feet	This buoy is placed to the eastward of the rock, on which there is 9 feet of water at low water spring tides.
2. Seaou-yew Spit Buoy *	Black buoy, surmounted by a black cage.	On the end of the mud spit projecting from Seaou-yew Island.	14 do	
Shanghai.				
1. Ariadne Rock Whistling Buoy.	Red and black chequered automatic whistling buoy.	About 250 yards south of the Ariadne Rock.	30 feet	8 feet in diameter, and 8 feet above the water line. The Ariadne Rock just shows at low water spring tides.
2. Fairway Bell Buoy	Red and black horizontally striped buoy, surmounted by a black spherical cage.	Off the southern entrance to the Yangtze; Gutzlaff bear- ing south, and <i>Tungsha</i> lightship N. 60° W.	23 do	10 feet in diameter, 15 feet high to top of cage.
3. Fairy Wreck Buoy	Green conical buoy, with the word "WRECK" and the numeral "3" painted on it in white.	About 150 yards north-eastward of wreck of Fairy; House Island Beacon bearing N. 10° W.; distant about 4 no miles.	Uncertain.	
4. Middle Ground Lower Buoy.	Black buoy with black spherical cage.	Off the north-eastern edge of the south bank, with House Island Beacon bearing N. 11° W.; distant about $3\frac{6}{10}$ miles.		6 feet diameter, 11½ feet high to top of cage.
5. Middle Ground Upper Buoy.	Black buoy with black cylindrical cage.	Off the upper or north-western end of the shoal formerly known as the Middle Ground, with Kiutoan Beacon bearing S. 15½° W.; distant 2¼ miles.		do, · do.
6. South-east Knoll Buoy	Red buoy with black spherical cage.	Off the south-easternmost of a line of knolls which are developing off the south-western side of Blockhouse Shoal; small Kiutoan Beacon bearing S. 87° W.; distant about 210 miles.		do. do.
7. Lismore Wreck Buoy	Green nun buoy, with the word "Wreck" and the numeral "I" painted on it in white.		1	4 feet diameter.
8. Woosung Spit Buoy	Red and black vertically striped buoy, with black spherical cage.			to top of cage.

^{*} Temporarily removed by order of the territorial authorities.

Г	DISTRICT NUMBER	М	ARK.	Depth: Low	Nome
_	AND NAME.	Description.	Position.	Water Spring Tides.	Note.
	6. Tsungming Bank Buoy.*	Red buoy with black spherical cage.	Off the south-eastern elbow of the Tsungming Bank.	Uncertain	6 feet diameter, 11½ feet high to top of cage. "High Dark Tree" on S.W. shore of Tsungming bearing N. 46¾ E.
	10. Dove's Nest Buoy*	do. do.	Off the edge of the Dove's Nest Shoal (which is a part of the Acteon Shoal), on the star-	do	6 feet diameter, 11½ feet high to top of cage.
	II. Triumph Bank Buoy.*‡	Black buoy with black inverted frustum cage.	board side of the channel. On the edge of the bank which extends from the southern shore.	do	do. do. +
	12. Actæon Buoy*‡	Red buoy	Off the edge of the Actæon Shoal, on the starboard side	do	- do. do. †
	13. Centaur Lower Buoy.*‡	Black buoy with black spherical cage.	of the channel. On the south-eastern extremity of the Centaur Shoal.	do	do. do. †
	14. Actæon Shoal Upper Buoy.*‡	Red and black vertically striped conical buoy, sur- mounted by a black trian-	Off the north-western end of the Actaon Shoal.	do	do. do. +
Yangtze River above Woosung.	15. Middle Bank Buoy.* §	gular cage. Red and black horizontally striped buoy, surmounted by a black spherical cage.		do	do. do. +
oove W	16. NorthBankBuoy*§	Red buoy	To the southward of the south- eastern elbow of the North Bank.	do	do. †
River al	17. Langshan Buoy*§	Red buoy with black spherical cage.		do	do. , do. +
ngtze.	18. Vine Point Lower Buoy.* §	Red buoy	do. do.	do	do. do. +
Ya	19. Waterman Bank Upper Buoy.* §	Black buoy	the continuation of the	do	do. do. †
	20. Vine Point Buoy *§	Red buoy with black spherical cage.	Waterman Bank. Off the north-western edge of the Vine Point Shoal.	do	10 feet diameter, 18 feet high to top of cage.+
	21. North Tree Rocks Buoy.*	Red buoy	About 100 yards to the south- ward and westward of the	do	6 feet diameter, 11½ feet high to top of cage.
	22. South-east Spit Buoy.*	striped conical buoy, with a black diamond-shaped	rocks. Off the south-eastern end of the Actæon and Dove's Nest Shoals.	do	do. do.
	23. Cone Tree Buoy*	cage. Black conical buoy	Off the eastern edge of the Actæon Shoal,	do	do. do.
	24. Fairway Buoy*	Red and black horizontally striped conical buoy.	A little to the westward of mid-channel.	do	do. do
	25. North-east Actæon Buoy.*	Black conical buoy,	Off the north-eastern edge of the Actæon Shoal.	do	do. do.
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^{*} Temporarily removed by order of the territorial authorities.

[†] The banks at the Gentaur and Langshan Crossings are subject to frequent changes. These parts of the river should therefore be navigated with caution, and the lead kept going.

[#] These four buoys lead over the Centaur Crossing.

[§] These six buoys lead over the Langshan Crossing.

[|] These five buoys mark the Harvey Point Channel.

DISTRICT NUMBER	M.	ARK.	Depth: Low Water Spring	Note.
AND NAME.	Description.	Position.	Tides.	,
26. Middle Island Buoy*	Black buoy with black inverted frustum cage.	Off the northern elbow of the banks which lie to the northward of Middle and Blockhouse Islands, Blockhouse Beacon bearing S. 104° E.,	Uncertain	6 feet diameter, 11½ feet high to top of cage.
27. Ch'i-yao Bank Buoy*	Red buoy with black spherical cage.	distant $6\frac{1}{2}$ miles.	do	do. , do.
28. Drinkwater Point Buoy*	Red and black horizontally striped fairway buoy, with black spherical cage.	In the North Channel	24 feet	10 feet diameter, 18 feet high to top of cage. Shawei- shan Lighthouse bears N. 86° E., distant about 12 miles.
CHINKIANG.				
1. Silver Island Spit Buoy	Red and black vertically striped 6-foot conical buoy, surmounted by a black diamond-shaped cage.	of Silver Island.	Uncertain	Vessels should not pass be- tween this buoy and Silver Island.
Hankow.				
1. W. C. de Vries Rock Temporary Spar Buoy.		Nearly on rock, a little on the east side.		Long white range pole at Chung-chih-kuan bears about E. 4 S., distant about 700 yards. This buoy is maintained from about December to May, or when the river is below 19 feet (Hankow water gauge).
2. Huquang Rock Tempo- rary Spar Buoy.	do. do.	Nearly on rock, a little on the south side.		Long range pole (white, red, and black) at So-chia-chih bears about S. ½ E., distant about 400 yards. This buoy is maintained from about December to May, or when the river is below 19 feet (Hankow water gauge).
3-9. Lee Rocks Spar Buoys		On various rocks, etc., Shi- hui-yao Reach.		Seven (or more if necessary) spar buoys mark the Lee Rocks and others during low water, placed for the guidance of light-draught lighters and tugs bound to the wharf, Shi-hui-yao. Vessels bound up or down river should give the rocks a wide berth and keep as close as practicable to the mud bank on the left side of the river. Endeavour will be made to keep the outer buoy (the one nearest mid - channel) lighted during low water.

^{*} Temporarily removed by order of the territorial authorities.

District Number	М	ARK.	Depth: Low Water Spring	Note.
AND NAME.	Description.	Position.	Tides.	21013,
2. South Buoy* 3. North Bank Spit Buoy*	striped iron egg buoy, 6 feet 3 inches in diameter, surmounted by black tripod and cage. Black iron nun buoy, 8 feet 6 inches in diameter. Red iron nun buoy, 6 feet 8 inches in diameter.	Placed at the entrance to the channel across the bar. On the south side of the channel, to mark a bend. On the south edge of the North Bank Spit. On the south edge of the north bank.	6 do.	•
2. Middle Buoy †	mounted by a black frustum cage.	edge of the bar. Inside the shoalest part of the bar, and marks the southeastern extremity of the west bank.	8 do.	

^{*} During the winter months the four iron buoys in the Tientsin district are replaced by spar buoys, painted black.

[†] From about the 1st November until about the 1oth April the three iron buoys in the Newchwang district are replaced by wooden spar buoys, of similar colours, surmounted by black cages fixed on bamboo perches.

BEACONS.

No.	NAME OF DISTRICT AND NAME OF MARK.	Position.	Description.	Remarks.
	CANTON.	On the rocks near Dutch Folly	Round granite beacons, 26 feet	Two red lights
1, 2	Beacons.	Island, north side of the channel.		Two realigness
3	Dutch Folly South Beacon.	On the rocks near Dutch Folly Island, south side of the channel.	A round stone and brick bea- con, 22 feet high, painted black, and surmounted by a lantern.	Green light.
4	Taimei Beacon:	On the end of sandspit making out from 49th Point, Marines Island, Blenheim Passage.		White light.
5-7	Taishek Barrier Beacons. Swatow.	On the northern side of the Barrier, Blenheim Passage.	Three spar beacons, each 46 feet high, surmounted by a circular frame, and painted red, white, and red.	Two red lights hoisted to the east and west beacons.
8	Gochang Rock Beacon.	On the rock, Swatow Anchorage	Black, granite beacon, 5 feet in diameter, 5 feet high, and carrying a 5 feet high pole surmounted by a black wicker basket.	the beacon Gochang Point
	Amoy.			
9	Alibi Rock Beacon	On a rock a little to the N.E. of the northern end of Kulangsu.	Black, granite obelisk, 22 feet high above the rock.	A rock, covered 14½ feet at low water springs, lies N. by E. 40 yards from the southern of these two beacons (Chiotah); and S.E. by E. from the same beacon, distant about 100
10	Kangsimtah Bea-	These two beacons mark two reefs of rocks (extending out		yards, is a rocky patch, the centre and shoalest part of which has only 5 feet of water on it at low water springs.
11	Chiotah Beacon	from Kulangsu) at points where they uncover at \(\frac{1}{2} \) ebb.	Black granite chalisk 17	From the centre of this patch Alibi Rock Beacon is seen just open to the N.E. of the northern of these two beacons and in line with the west face of Monkey Island. The highest pinnacle of the Coker Rocks is in line with these two beacons, bearing from them about S. 34° E.
12-24	Harbour Marks	On rocks in the Inner Harbour. Three off the northern end of Kulangsu; six on the west side of the Inner Harbour, and four on the east side of the Inner Harbour.	tops. The four on the eastern side of the Inner Harbour are painted red; the remaining	ern edges of reefs off the north end of Kulangsu. The next six are on rocks on the western side of the Inner

BEACONS-Continued.

No.	NAME OF DISTRICT AND NAME OF MARK.	Position.	Description.	Remarks.
25	TAMSUI. Bush Island Beacon	On the extreme west end of Bush Island, Kelung Harbour.	Grating (crossed), 8 feet by 5 feet, mounted on a single spar 42 feet high. The grating is painted white, the spar is painted black.	altered in August 1893 by having an additional grating
	Foochow.			
26	Oriental Rock Beacon.	On Oriental Rock, Kimpai Pass	Spar mounted with a cage, 4 feet square on the upper and 2 feet 6 inches on the lower part. Painted red, with the words "ORIENTAL ROCK" in white on the cage. Shows 14 feet above high water spring tides.	rock is covered 4 feet. Vessels must pass to the south of the
27	Half-tide Rock Bea- con.	On the Half-tide Rock, near the upper end of Tongue Shoal.	Built of granite, painted black	The rock is submerged 5 feet at high water springs.
28	Pagoda Rock Beacon	On the rock in the Pagoda Anchorage.	Iron pile, surmounted by a cage painted red.	A red light is exhibited from sunset to sunrise. The rock is submerged 10 feet at high water springs.
29	Mamoi Rock Beacon	On Mamoi Rock	Pole with cage painted red	The rock is only covered at high water.
	Wenchow.			
30	Elephant Rock Bea- con.	On a small pinnacle rock called "Hsiang - shih" (Elephant Rock), about 600 feet S.E. of the east end of Pagoda Island (Ku-hsü, vulgarly called Kiang-sin-sze), which is in the middle of the river opposite the north wall of the city.	mast 3 inches in diameter. painted red, on which is fixed a bamboo basket 6 feet in diameter, painted red, with a white horizontal band round	The centre of the basket is 9 feet 6 inches above high water springs. The rock is
31, 32	Ist Crossing or Lower Anchorage Bea- cons.*	On the right bank of the Ou River, about 1\frac{3}{4} miles to the westward of the Lower Anchorage Station.	mounted by a bamboo frame	should indicate the best channel for crossing to the south-western point of Ch'itu-t'u (Big Island).
33, 34	2nd Crossing or Snipe Island Beacons.*	On western end of Snipe Island	I. A pole, 36 feet high, surmounted by a bamboo frame 6 feet square. 2. A pole, 26 feet high, surmounted by a pyramidal bamboo frame 6 feet high. The poles are painted in red and white horizontal stripes, and the bamboo frames half red and half white horizontally.	These beacons kept in line should indicate the best channel (over the old 2nd and 3rd Crossings) to White Temple, on the north bank of the river.

BEACONS—Continued.

	NAME OF DISTRICT			
No.	NAME OF MARK.	Position.	Description.	Remarks.
35, 36	3rd Crossing or Chiang t'u Beacons.*	On the left (northern) bank of the Ou River, a short distance to the eastward of Chiang-t'u.	1. A pole, 36 feet high, surmounted by a bamboo frame 6 feet square. 2. A pole, 26 feet high, surmounted by a pyramidal bamboo frame 6 feet high. The poles are painted in red and white horizontal stripes, and the bamboo frames half red and half white horizontally.	These beacons kept in line should indicate the best channel between the northern bank of the river and the city.
37	Alligator Beacon	of rocks extending 2 cables south from the extreme south-	Stone beacon, painted red	Long-nose Point bears N. 564° W.; Just-in-the-way bears S. 87° E.
38	Blonde Rock Beacon*	ern end of Kintang Island. Blonde Rock, in the Kintang Channel.	Iron beacon, with cage, painted black.	Sanshan Islet bears S. 42° E.; Square Island, N. 65° W.; Beacon Hill in one with the citadel, S. 45° W. Rock awash at low water.
39	Tiger's Tail Beacon *	On a rock bearing N. 43° W. from the tower on Tiger Island; distant 210 yards.	Iron beacon, painted black, with a white cage.	Rock awash at half tide.
40	Nemesis Rock Beacon.*		Hard-wood spar, painted red, with an inverted frustum cage, painted white.	Erected by Chinese, but maintained by the Customs.
	Shanghai.			
41	Clump Beacon	South side of southern entrance to the Yangtze River.	Quadrangular open-work struc- ture of wood, 50 feet high, and not painted.	Established for surveying purposes.
42	House Island Beacon	Near the south-western shore of House Island.		do. do.
43	Kiutoan Beacon	South side of southern entrance to the Yangtze River.		do do.
44	Blockhouse Island Beacon.	Near the south-eastern end of Blockhouse Island.	do. do.	do. do.
45	Middle Island Bea- con.	Near the eastern end of Middle Island.	do. do.	do. do.
46	Drinkwater Point Beacon.	Near the south-eastern shore of Tsungming Island.	Quadrangular open-work struc- ture of wood, 50 feet high, and not painted.	do. do.
47, 48	Woosung Inner-Bar Marks: Feima Channel.†	On the left bank of the Woosung River.	1. A low pole, with a pyramidal top, near the river bank. 2. A high pole, with a rectangular top, farther inland.	dicate the fairway course through the channel between the wreck of the Feima and the right bank of the river. A white light on the low pole and a red light on the high
49, 50	Woosung Inner-Ba Marks: Old Chan nel.		do. do.	pole indicate the same channel by night. These poles kept in line lead across the bar in the depth of water which is signalled from the Customs station during daylight. A red light on the low pole and a white light on the high pole indicate the same channel by night.

^{*} Temporarily removed by order of the territorial authorities.

[†] Discontinued whenever, and so long as, the depth in the Feima Channel is less than the depth in the line of the old Bar Marks.

BEACONS—Continued.

No.	NAME OF DISTRICT AND NAME OF MARK.	Position,	Description.	Remarks.
51	KIUKIANG. Lay Island Beacon Oliphant Island Beacon.	from the upper (west) end.	high water, surmounted by a black ball, and painted black and white.	
53, 54	Hankow. Chung-chih-kuan Range Poles. So-chia-chih Range Poles.	On the rocky south shore, nearly abreast of W. C. de Vries Rock, Huquang Winter Channel, opposite Huquang Flats, Loko-hi Reach. On the south shore, opposite Huquang Rock, in the Huquang Winter Channel, abreast of Huquang Flats, Lo-ko-hi Reach.	on pyramid-shaped stone beacons. I. A high pole, surmounted by a black wicker ball. 2. A low pole, which is nearer to the channel, surmounted by a black ring. Both poles are painted white. The stone beacons are covered when the Hankow water gauge shows 10 feet 6 inches.	clear of the Huquang Rock and give a nearly mid-channel course. They are placed in position in December, or when the river falls to 19 feet, and removed again early in May, or when the river is rising and the Hankow water gauge shows about 19 feet. These poles kept in line lead clear of the W. C. de Vries Rock and give a nearly mid-
57	con.	On the Fairway Rock, off the north-western point of Yentai Hill.		Rock dries at low water spring tides. Chefoo Peak, N. 4° W.; Sentry Rock, N. 38° E.; Chefoo Lighthouse, N. 85° E.
58	TIENTSIN. Wooden Bescon	On the north bank, at the	Pyramid shape nainted white	
59, 60	South Bank Leading Marks up the	mouth of the Peiho. On the south bank	Two poles with square boards painted one half white and	
61,62	Deep Hole. South Bank Marks	On the south bank, near the mouth of the Peiho.	one half black. Two poles, outside one surmounted by black ball, and inside one by square wooden grating painted one half white and one half black.	
63	South Bank Mark Newchwang.	On the south bank of the Peiho, near the C. M. S. N. Co.'s godown.	A board painted one half black and one half white, erected on two poles.	
64	East Spit Beacon *	On the East Spit, a shoal extending south-westerly from the dry bank of the river.	Red spar, mounted with two red balls; 25 feet above high water.	It marks the western edge of East Spit, on the starboard side of channel. The Whale's Back Shoal, on the opposite side of the fairway, bears about S.W. by W. ½ W. from this beacon.

^{*} Removed every year, in the latter part of November, on account of ice in the river, and replaced as soon as practicable on the opening of navigation.

BEACO'NS—Continued.

No.	NAME OF DISTRICT AND NAME OF MARK,	Position.	Description.	. Remarks.
65	Nodding Tommy Beacon.* †	On the east bank of the river, and I mile above East Spit Beacon.	diamond-shaped box, which has a white band I foot wide painted round the middle of it. The spar is 25 feet above	
66	Middle Bank Bea- con.*	On the east bank of the river, about 24 miles above Nodding Tommy Beacon.		Middle Bank Shoal, on the opposite side of the channel, bears about S.W. by W. \(\frac{2}{4}\) W. from this beacon.
67	Flagstaff Beacon	On dry ground on the east bank of the river, and 7 cables N.E. from Middle Bank Beacon.	Spar, 50 feet high, mounted with two diamond-shaped boxes. The spar is painted red from the ground to the bottom of lower box, white from thence to the bottom of upper mark, and the remainder red.	
68	Fish House Beacon	On the west bank of the river, near high water mark, and a short distance from the bend that leads to the harbour.	Black spar, 40 feet high, mounted with a black dia-	It marks the channel in cross- ing over from the east to the west bank of the river.

^{*} Removed every year, in the latter part of November, on account of ice in the river, and replaced as soon as practicable on the opening of navigation.

A. M. BISBEE,

Coast Inspector.

By Order of the INSPECTOR GENERAL,

H. KOPSCH,

Statistical Secretary.

Inspectorate General of Customs,
Statistical Department,
Shanghai, January 1895.

[†] To the S.E. of Nodding Tommy and about 200 yards from it there is a beacon painted black, which is intended for survey purposes only.

APPENDIX I.

LIST OF FOREIGN LIGHTS STAFF.

(Corrected to 1st December 1894.)

No.	Name.	Rank.	Date of first Appointment.	District or Section.
	LIGHT-VESSELS.		,	
1	W. W. Orfeur	Captain	March 1880	Tientsin.
2	C. E. R. Handro	93	November 1882	Newchwang.
3	C. J. V. Hoerk	99	December 1890	Shanghai.
4	L. R. Sachs	,,	July 1885	22
5	C. Druwert	First Mate	November 1886	Tientsin.
6	A. H. A. Windhorst	,, ,,	December 1890	Shanghai.
7	O. R. F. Soderberg	,, ,,	June 1892	22
. 8	H. A. Thorkelsen *	Second,,	September 1887	Tientsin.
9	D. E. Christiansen	,, ,,	June 1892	Newchwang.
10	A. Andreasen	" " (Actg.)	November "	22
11	C. Smith	22 22 22	September "	22
	LIGHTHOUSES. LIGHTKEEPERS.			
12	J. Noble		June 1877	Amoy.
13	J. Harp	77 27	27 27	Chefoo.
14	T. Cunningham		" "	Shanghai.
15	C. W. Bond		<i>"</i>	>>
16	J. Eccles	. ,, ,,	22 22	Chefoo.
17	P. F. S. Wilnau	27 23	November 1879	Amoy.
-18	D. Botelho	Chief, B	December 1861	,,,
19	C. May	29 29 *********	July 1880	"
20	D. Wisas.	,, ,,	September 1875	Chefoo.
21	P. J. J. Stellingwerff.	// //	February 1877	Amoy.
22	G. T. Hansel		October 1885))
23	1	" "	August 1892	Chefoo.
24	C. G. Soelberg	., ,,	April 1881	Amoy.
25 26	A. Michel		December 1874 September 1886	Shanghai.
27	J. Chapman	"	*	Chefoo.
28	J. S. de Elizaga	2) 2)	70. 1	Amoy.
29	J. Shields	,, ,,	December ,,	99
30	L. H. C. Klýhn	,, ,,	August 1881	Chafaa
30	La Li. U. Ixiyiiii	22 22 *******	January 1885	Chefoo.

^{*} And Lightkeeper.

APPENDIX I—Continued.

No.	NAME.	Rank.	Date of first Appointment.	District or Section.
31	G. J. Nott	Second, A	August 1892	Chefoo.
32	A. M. dos Santos	25 25	March 1882	Amoy.
33	B. R. Bohn	,, ,,	April 1889	23
34	A. F. C. Penzig	Second, B	May 1882	Shanghai.
35	J. Bluhm		March 1885	39
36	D. Fernandez	,, ,,	June 1878	Amoy.
37	E. E. Ferrari		April 1884	"
38	J. Rodrigues		August 1877	Shanghai.
39	T. O'Driscoll		January 1887	Amoy.
40	H. P. T. Möller		November ,,	23
41	P. E. Johnsen		March 1885	Chefoo.
42	H. A. Atkinson		August "	Kiungchow.
	F. R. Schulz		**	Shanghai.
43 44	F. Dalton		March ,,	Chefoo.
	J. H. Buntzen		December 1888	Amoy.
45 46	J. C. H. Schmüser			Kiungehow.
	P. H. Niner.			Amov.
47	J. Wulf		November 1889	Chefoo,
48	C. L. Christiansen		December 1888	Amoy.
49	J. Lewis			Chefoo.
50	W. Perry		0 . 3	Shanghai.
51.	C. Hansen	1	· ·	Kiungchow.
52	J. C. Bruhn	1		Amoy.
53				
54	H. J. Jacobsen		3.5	» Shanghai.
55	D. Ross.			
56	W. Murray			Shanghai.
57	A. Ross			
58	W. Owens		0 . 1	22
59				Amoy.
60	S. P. Swensson	İ		
61	N. Bernstein		1	» Shanghai.
62	A. E. Adams			
63	J. McEvoy [on probation]		February 1894	
64	E. Knebel "			93
65	F. J. Wakeham ,,	1 " "		A more
66	R. C. Radomoki [on probation]		3T	Amoy.
67	J. R. Walsh [on probation]		November "	55
68	N. H. Olsen "	. ,, ,,	. 99 99	29

APPENDIX II.

LIST OF CHINESE LIGHTS STAFF.

(Corrected to 1st December 1894.)

	NAME.				Rank.		Date of first		District	
No.	In English.		In Chinese.					Appointment.		Section.
	LIGHTKEEPERS.									
I	Hsieh Yung	謝		榮	Fourth,	C	*****	June	1894	Kiungchow.
2	Ch'ên Kuei	陳		貴	,,	22	••••	"	,,	"
3	Liu Nan	劉		南	"	29		,,	,,	,,
4	Kuan Pao	關		保	22	22	*****	August	,,	77
5	Huang Yung-shêng	黄	榮	生	. ,,	22	• • • • • •	October	"	77
6	Chiang Hsiu-wên	蔣	秀	文	"	22	• • • • •	22	"	97
7	Ch'ên Chao-tsung	陳	朝	宗	"	22	•••••	November	22	22
8	Ch'ên Yu-ch'ing	陳	有	慶	,,	,,	• • • • • •	"	99	39
9	Ch'ên Fa	陳		發	"	22	****	June	1892	Canton.
10	Ch'ên Ch'iao	陳		橋	,,,	22	*****	October	1893	59
11	Liang Kuang	梁		光	22	23	*****	April	1880	99
12	Но Као	何		高	22	99	*****	September	1882	23
13	Lao Shih-wu	勞	+	五	77	22	*****	October	1881	99
14	Yang Yung	楊		容	22	99	*****	November	1894	>>
15	Но Wo	何		篙	"	22	****	22	1892	99
16	Li K'un	李		抻	>>	22		July	1891	99
17	Li Ping	李		炳	>>	9.5		March	1893	99
18	Liang Chi	梁		濟	>>	22		July	1891	27
19	Ch'ên Shu	陳		樹	53	22		September	1892	,,,
20	T'an Po	譚		栢	>>	22	*****	November	.1894	29
21	Chang Wei	張		娓	25	22	*****	October	1888	22
22	Chang Chin	張		金	99	22	• • • • •	December	1891	99

APPENDIX II—Continued.

TAT :	· NAME.		Rank.	Date of first	District
No.	In English.	In Chinese.	AviiIIA.	Appointment.	Section.
23	Huang Jun	黄潤	Fourth, C	January 1892	Canton.
24	Ts'ao Hsi-ti	曹細弟	,, ,,	June 1888	Amoy.
25	Wang Shih-ti	王實弟	,, ,,	April 1890	>>
26	Hsii Hsi-mei	許細妹	,, ,,	December 1879	23
27	Lin Yung-mi	林永密	,, ,,	July 1891	99
28	Chêng A-tê	鄭阿得	,, ,,	November 1876	99
29	Chuang A-k'un	"莊阿坤	,, ,,	. " 1883	99
30	Hung Hua	洪 華	,, ,,	December 1880	29
31	Wang Nêng	王 能	22 22 ******	September 1886	99
32	Li T'ien-chiao	李天教	,, ,,	January 1891	23
33	Lin Ch'iu	林 求	,, ,,	September 1871	33
34	Lin Chung	林 仲	,, ,,	June 1890	99
35	Li Chi	李 吉	,, ,,	May 1862	1 22
36	Li Tun	李 盾	,, ,,	November 1878	93
37	Li Hsün	李 爆	,, ,,	April 1883	99
38	Huang Chên	黄 振	,, ,,	November 1871	22
39	Chi Hsiang	紀 响	,, ,,	May 1881	27
40	Wu A-yin	吳阿印	29 99 *****	July 1888	22
41	Hsii A-chui	許阿追	,, ,, ,,	January · 1879	27
42	Hsü A-chu	許阿朱	,, ,, ,,	February 1884	93
43	Huang Wei	黄 威	,, ,, ,,	March 1883	,,
4.1	Li Ju	李如	,, ,, ,, ,,,,,,,	April 1881	27
45	Lin Yu-hsien	林有賢	,, ,,	January 1892	99
46	Chuang A-huai	莊阿懷	,, ,,	February "	23
47	Chu Ch'ao-fu,		,, ,,	September 1888	53
48	Ch'êng Ch'in		. ,, ,,	February 1891	27
49	Hsü Lai-shun		,, ,,	June 1888	27
50	Lin Yu-lai			May 1882	27
51	Chu Chiang			August 1885	,,

APPENDIX II-Continued.

No.	NAME.				Ra	nk		Date of first	f	District
,	In English.	In	Chi	nese.			Appointment.		Section.	
52	Hsü A-chiang	徐	阿	江	Fourth,	C		April	1881	Amoy.
5 3	Chao Ch'un-piao	趙	春	標	"	23	*****	June	1882	,,
54	Lin A-chu	林	阿	猪	"	22		February	,,	,,,
55	Ch'ên I	陳		義	"	22	•••••	July	1884	23
56	Kuo Chung	郭		忠	"	22		August	1891	,,
57	K'o Fu	柯		腷	22	21	*****	April	1893)))
58	Ch'ên Ping	陳		炳	25	29	• • • • • •	22	55	,,,
59	Li Lai	李		來	"	23		September	1877	"
60	Kuo Piao	郭		標	77	73		November	1892	Tainan.
61	Lu Ch'ing-ch'üan	盧	清	泉	>>	23	• • • • • • • • • • • • • • • • • • • •	June	1886	>>
62	Huang Yu-lai	黄	友	來	22	27		April	1888	Tamsui.
63	P'an Lao-têng	潘	老	登	22	22		December	93	>>
64	Lin T'ung	林		桶	22	22	*****	July	1886	25
65	Kuo Mao-shêng	郭	茅	生	,,,	99	*****	November	1888	27
66	Ch'ên Ch'ang-jung	陳	昌	榮	22	23	*****	April	1864	Ningpo.
67	Ku Chi-chang	顧	寄	章	29	22	*****	September	1877	"
68	Shih A-hsüan	史	阿	煊	"	11		January	1867	,,
69	Hsü Ch'üan-chin	徐	全	金	22	33	*****	22	1892	>>
70	Wu Ping-chiang	鄥	炳	江	22	99		23	1875	"
71	Wang Chung-huai	王	中	懐	>>	"	• • • • •	August.	1879	,,
72	Hsieh Jên-kuei	謝	仁	貴	,,	,,		October	1888	"
73	Ch'ên A-fang	陳	阿	方	>>	22		June	1864	Shanghai.
74	Ts'ao A-pao	曹	阿	贄	"	29	• • • • •	January	1883	23
75	P'an Lung-ch'üan	潘	龍	泉	"	22	• • • • •	April	1878	22
76	Chao Kuei-yün	趙	貴	云	"	22		January	1883	79
77	Mao Pan-lai	毛	泮	來	"	"	• • • • •	April	1893	22
78	Lu K'un-jung	陸	坤	榮	19	23		March	1878	
79	Ling Hsiao-fang	陵	小	芳	"	"		June	1869	22
80	Yang Shun-chung	楊	順	忠	"	99		May	1873	"

APPENDIX II—Continued.

	NAME.		Rank,	Date of first	District or
No.	In English.	In Chinese.	Kank.	Appointment.	Section.
4 81	Shên Ta-shêng	沈大生	Fourth, C	July 1883	Shanghai.
82	Shên Yün-yao	沈云姚	,, ,, ,, ,,,,,	January 1884	"
83	Tsai A-tao [on probation]	蔡阿道	,, ,,	August 1893	. 99
84	Fei Chin-pao	費金寶	77 79 *****	April 1881	59
85	Lo Hsiu-liang	樂秀凉	,, ,, ,, ,,,,,	,, 1891	,,
86	Chiang Chin-shêng	蔣金生	22 22 22 22	August 1893	>>
87	Lu Yin-kuei	陸銀貴	,, ,,	September 1880	23
88	Yao Ting-kuei	姚定貴	,, ,, ,, ,,,,,,	April ,,	29
89	Fu Chih-shou	傅志 壽	,, ,, ,, ,,,,	February 1877	23
90	Lo Ssŭ-yo	羅四岳	,, ,,	April 1883	27
91	Fei Kuei-hsien	費桂咸	,, ,,	February 1885	22
92	T'an Wên-chi	譚文紀	59 59 *****	April 1892	° 23
93	Yang Jui-chi	楊瑞吉	,, ,,	August 1883	. 79
94	Lo Chung-hsiao	樂忠孝	,, ,,	June 1888	23
95	Lu Chih-ho	陸芝和	,, ,,	April, 1893	22
96	Ting A-t'ang	丁阿堂	,, ,, ,,	August 1870	22
97	Sung A-hsiao	朱阿小	22 23 *****	July 1876	22
98	Wang Jên-ch'ien	王仁謙	22 22 22 22	September 1889	32
99	Li A-ts'ai [on probation]	李阿材	,, ,, ,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	August 1894	22
100	Lo Hsi-pao "	羅西實	,, ,, ,,	October 1892	"
101	Chang Chieh-mei [on probation]	張介眉	,, ,,	August 1894	22
102	Chou Pao-shêng ,,	周寶生	,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	September ,,	"
103	Ts'ui Tê-fu	崔德福	,, ,, ,,	April 1873	Chinkiang.
104	Yen Wei-ch'un	嚴維春	25 25	December 1886	>>
105	Lu Hêng-i	陸恒義	,, ,, ,,,,,,,	,, 1870	>>
106	Hsü Hung	徐洪	,, ,, ,,,,,,,	July 1878	"
107	Ts'ui Hêng-fa	崔恒發	,, ,,	November 1881	27
108	Lu Ming-k'uei	陸名奎	,, ,,	October 1894	27
109	Shao Mei-ts'ai	邵美才	,, ,,	November 1877	"

APPENDIX II—Continued.

NT	Name.		Rank.	Date of first	District or
No.	In English.	In Chinese.	-	Appointment.	Section.
110	Shao Fu-shou	邵福壽	Fourth, C	October 1893	Chinkiang.
111	Wang Fu-ch'üan	王福泉	27 27 ******	January -1880	.∴. 22
112	Ch'ên Hung-chün	陳宏鈞	22 23 *****	September 1890	22
113	Chou Tê-shêng	周德盛	,, ,, ,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	June 1879	*
114	Chou Chêng-kun	周正崑	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	July 1894	27
115	Hsü Yu-kao	徐有告	22 22 22 22	March 1874	23
116	Li Chin-yu	李金有	23 . 23 ******	August 1894	* 25
117	Hung Wan-i	洪萬億	59, 79 ******	February 1866	29
118 .	Ku Yung-lin	顧永林	29 - 29 ******	June 1885	27
119	Ch'ên Yu-i	陳有義	33 33 ******	April 1875	>>
120	Yü Tê-shui	虞德水	99 99 *****	August 1884	"
121	Hsü Yung-shêng	徐永生	99 99 ****	April 1881	79
122	Pu Liu-yüan	卜流源	, ,, ,, ,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,	July 1878	. 55
123	Yang Tê-shun	楊德順	22 22 22 22 22 22 22 22 22 22 22 22 22	June 1888	,,,
124	Hsü Shao-ch'ên	許少臣	99 . 99 *****	July 1891	99
125	Wu Pên-hsin	吳本信	. 33 ' 33 420000	June 1885	Kiukiang.
126	Wang Ch'üan-chin	王全金	. 99 99 *****	May 1887	. 33
127	Chou Tsung-huai	周宗淮	,,, ,,	July 1890	. 23
128	Chao Ta-chiu	趙達九	,,, ,, ,,	June 1870	22
129	Wan Yü-ch'iu	萬裕秋	· ,, · ,, i	February 1891	
130	K'ung Hsien-i	孔憲義	22 22 22 22	January 1877	22
131 .	Huang Ho-jên	黄和人	. 99 99 *****	March 1892	. 29
132	Wan Yü-huai	萬裕淮	,, ,, ,,	December 1888	22
133	I Sui-hai	易綏海	,, ,, ,, ,,,	April 1890	,,
134	Hsieh Yün-ch'üan	謝運全	39. 39 *****	February 1891	39
135	Ts'ai Tsêng-fa	蔡 增 發	,, ',,	December 1873	* 22
136	Ch'êng Tê-p'êng	程得鵬	,,, ,,, ,,,	February 1887	- 91
137	Wan Yü-ts'ai	萬裕財	. ,, ,, ,,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,	December 1894	39
138	Chu Mei-ch'üan	朱美全	77 27 *******	April 1890	29

APPENDIX II-Continued.

	NAME.		Rank.	Date of first	District or
No.	In English.	In Chinese.	rank.	Appointment.	Section.
139	Kuei Ch'un-ying	桂春迎	Fourth, C	June. 1876	Kiukiang.
140	Hsü Tsê-ming	徐澤明	,, ,,	February 1891	,,,
141	Chang Shu-k'un	張述坤	,, ,,	October 1872	"
142	Hu Ta-chêng	胡大正	,, ,,	May 1891	,,
143	Wang Wu-shang	王伍尚	,, ,,	November 1884	>>
144	Chang Ming-k'ai	張明楷	,, ,,	July 1891	"
1.45	Hsiung Shêng-hsiu	熊盛修	,, ,,	December "	>>
146	Wu Ch'ing-nien	吳慶年	,, ,,	April . 1889	22
147	Wang Lung-hai	王龍海	,, ,,	May 1876	".
. 148	Chang Liang-shan	張良善	,, ,,	December r885	,,
149	K'o Ming-i	柯明義	,, ,,	March ,,	,,
150	Wu Hsiao-lin	吳學林	,, ,,	April "	"
151	Liang I-fang	梁儀芳	,, ,, ,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	November 1889	,
152	Wan Yü-ch'uan	萬裕船	,, ,,	September 1893	>>
153	Hsieh Shun-huai	謝順懷	,, ,,	April 1891	27
154	Wan Shih-yu	萬時友	,, ,,	September 1893	,,,
155.	Li Ting-yung	李廷榮	,, ,,	January 1894	,,,
156	Wang Hsia-hua	王孝華	,, ,,	,,, ,,	>>
157	Chang Nien-kuei	張年貴	,, ,,	September 1887	Hankow.
158	I Ming-yüan	易明元	,, ,,	December 1885	>>
159	Wang Ts'ai-kao	王才高	,, ,, ,,	November 1891	79
160	Yang Ch'un-mao	楊春茂	,, ,,	June 1890	>>
161	Chu Tê-lin	朱德鄰	,, ,,	May 1891	,,
162	Wang Ming-shan	王明善	,, ,,	October 1883	"
163	Liu Chêng-ch'ien		,, ,,	April 1879.	,,
164	Li Hsi-yüan		,, ,,	July 1883	,,,
165	Liu Pi-ch'ang	劉必昌	,, ,, ,, ,,,,,,	,, 1869	. ,,
166	Huo Yü-ch'ing	霍裕慶	,, ,,	November 1884	22
167	Chu Chêng-yu	朱正有	,, ,,	February 1863	23

APPENDIX II—Continued.

No.	NAME.		Date of	District	
	In English.	In Chinese.	Rank.	first Appointment.	Section.
168	Kung Tso-ying	龔作英	Fourth, C	January 1882	Hankow.
169	Chang Lao-yao	張老么	,, ,, ,,	December 1873	,,
170	Chiang Jên-k'uan	江人寬	33 35	November 1891	22
171	Chang Nien-pao	張年寳	39 39. *****	October 1871	",,
172	Liu Chung-lin	劉忠林	" "	April 1862	33
173	Liu Hsiao-ch'ing	劉學慶	,,, ,,	February 1879	22
174	Wang Ts'ai-shêng	王才生	,, ,,	August 1893	"
175	Huang Hsien-ts'ai	黄賢才	,, ,,	November 1892)
176	Tien Fang-chin	田方金	,, ,,	July 1876	22
177	Li Chêng-i	李正義	,, ,,	September 1885	27
178	Kuo Liang-shan	郭良山	,, ,, ,,	,, 1894	,,
179	T'ao Ming-chin	陶明金	,, ,,	August . 1889	"
180	Ch'ih Ch'ing-ling	遲慶命	,, ,,	May 1879	Chefoo.
181	Chou Ta-tê	周大德	,, ,,	,, 1887	22
182	Chi Ming-shui	紀明水	,, ,,	,, 1882	22
183	Tsou Tien-ch'ên	鄒典臣	,, ,,	October 1893	23
184	Ting Wên-yüan	丁文元	,, ,, ,, ,,,,,,	May 1871	**
185	Chou Yung-chih	周永智	,, ,, ,,	,, 1889	23
186	Jên Ch'üan-kuei	任全桂	,, ,,	,, 1886	"
187	Kao Hua	高 華	,, ,,	April 1891	97
188	Han Yung-hsi	韓永錫	,, ,,	August "	27
189	Han Yung-ch'in	韓永欽	,, ,,	April "	"
190	Lin Wên-chih	林交知	,, ,,	September 1893	"
191	Ts'ung Ch'i-hsing	叢起與	22 22 22 22	22 22	,,
192	Wang A-to *	王阿多	,, ,,	June 1884	23
193	Mu Hsiang-ho*	慕香和	,, ,,	September 1871	"
194	Chou Yung-hai	周永海	,, ,,	November 1873	>>
195	Ch'ü Shu-t'ien	曲書田	,, ,,,	August 1882	22
196	Ch'ê Ching-ch'un	車景春	,, ,,	September "	"

^{*} Engineer and Lightkeeper.

APPENDIX II—Continued.

No	No.	NAME.		Rank.	Date of first		District		
No.	Bin	In English.	In Chir	iese.	Ivank.	Appointment.		or Section.	
197		Lii K'o-hsiao	呂克	學	Fourth, C	December 1	885	Chefoo.	
198		Sun Yü	孫	玉	,, ,, ,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	May	891	"	
199		Sun Kuei	孫	桂	,, ,, ,, ,,,,,	,, 1	861 -	Tientsin.	
200)	Lu Ch'ang-hsing	陸長	興	,, ,,,,,,	March . I	887	,,	



III.-MISCELLANEOUS SERIES.

No	. 1.—The Tariff Tables: First Issue	Published	1868.
,,	2.—Ten Years' Statistics		1873.
,,	3.—VIENNA EXHIBITION CATALOGUE	. ,,	1873
,,	4.—PHILADELPHIA EXHIBITION CATALOGUE	. ,	1876.
"	5.—Paris Exhibition Catalogue	,,	1878.
,,	6.—List of Chinese Lighthouses, etc.: Twenty-third Issu	е	
	(First Issue, 1872)	. ,,	1895.
93	7.—List of Chinese Lighthouses, etc.: Chinese Version of		
	the Twenty-third Issue (First Issue, 1877)		1895.
"	8.—General Tariff List		1879.
"	9.—Berlin Fishery Exhibition Catalogue		1880.
22	10.—Names of Places on the China Coast and the Yangtz		
	RIVER: First Issue	. 33	1882.
"	11.—London Fisheries Exhibition Catalogue		1883.
,,	12.—Rules regarding Notarial Acts to be performed by	Y	
36	COMMISSIONERS OF CUSTOMS, AND FORMS OF PROTEST	: 15	
	Second Issue (First Issue, 1882: Circular No. 187)	. ,,,	1883.
- 99	13.—London Health Exhibition Catalogue		1884.
	14.—New Orleans Exposition Catalogue		1884.
	15.—English-Chinese Glossary of Technical ("Lights," etc.		
	Expressions: First Issue		1885.
,,	16.—CATALOGUE OF CUSTOMS PUBLICATIONS, WITH PRICES		3
	First Issue		1887.
-	17.—List of Chinese Medicines		1889.
	18.—The Tariff Tables, 1885: Second Issue		1889.
	19.—Treaties, Regulations, etc., between Corea and other		
9	Powers, 1876–89		1891.
11	20.—Typhoon Anchorages		1893.
	21.—CHART OF AMOY INNER HARBOUR		1893.
	22.—Woosung Inner Bar		1894.